

Gene Screen

The invention relates to a screen for the identification of genes which show regulated expression in response to carbon source utilisation.

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Colorectal cancer is a cancer which occurs in the large intestine and rectum. The colon can be divided into effectively four sections; the ascending colon; the transverse colon; the descending colon; and the sigmoid colon. Most colorectal cancers arise in the sigmoid colon and develop from "polyps" which can grow for several years before becoming cancerous. The early detection of these pre-cancerous growths is obviously desirable since removal of the polyps is a very effective means to stem the progress of disease.

There are various types of colorectal cancer. Most cancers of this type are adenocarcinomas which are malignant growths which begin in the epithelial cells which line the colon and rectum. Other cancers of the colon and rectum include gastrointestinal stromal tumours and lymphomas. In some examples the patient can be asymptomatic and for this reason it is important that screening is undertaken to identify those patients in which pre-cancerous polyps are forming. However, some patients do present with symptoms and these include rectal bleeding, diarrhoea, constipation, abdominal pain, and general weakness.

As mentioned above, regular screening is by far the most effective way of controlling this disease since removal of pre-cancerous polyps by surgery can effectively cure any disease before it is initiated. Currently, diagnostic tests include the use of colonoscopy, which allows a doctor to examine the rectum and colon; faecal blood analysis to check for any bleeding from the bowel and rectal area although this test is not directly diagnostic for cancerous lesion in its own right; and sigmoidoscopy which is similar to colonoscopy but only investigates the lower bowel area. Typically, patients with a family history of colorectal cancer can be expected to have

a colonoscopy every 5 years or so and a blood stool check on a yearly basis from about the age of 40.

5 The treatment of colorectal cancer usually involves invasive surgery to remove polyps and/or malignant growths. If the cancer has developed beyond the polyp stage then more extensive surgery is required which can result in removal of part of the bowel and surrounding lymph nodes. In the situation where a cancer necessitates extensive surgery a colostomy stoma may be required, at least for a period, to allow the bowel to recover from surgery. Surgery in the rectal region is more complicated  
10 and is largely dependent on how far the disease has progressed. In some cases the surgery can damage nerves which control sexual and urinary functions. In advanced stage colorectal cancers metastatic lesions may require removal and in about 15% of cases the lesions are in the liver which requires removal of large parts of the liver. The surgical removal of polyps and/or cancerous growths leads to a good prognosis  
15 for patients. In some cases surgery is followed by a course of chemotherapy (for colon cancer) and chemotherapy and radiation therapy (rectal cancer) to remove any cancer cells not detected during surgery. The chemotherapeutic agents typically used to treat colorectal cancer include 5-fluorouracil, leucovorin, irinotecan and capecitabine.

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It is apparent that the early detection of cells which are pre-cancerous is highly desirable since in most cases surgery to remove these cells results in a very good prognosis for patients. Diagnostic tests which use the detection of cancer markers as an early indicator of cancer are known in the art.

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For example, EP1355149 describes gene expression profiles from colorectal samples to provide a "finger print" expression profile as an indication of whether a patient is susceptible to the development of colorectal cancer or indeed if malignant growth has already been initiated. The disclosure in EP1355149 is directed to the use of  
30 microarrays to compare transformed and non-transformed tissue gene expression in a global sense.

WO02/059609 also describes a gene screen which utilises expression profiles in breast and colorectal cancer. A comparison is made between "normal" and "abnormal" samples in patients to provide a global picture of gene expression in these samples as an indicator of particular genes which are either over-expressed or abrogated between samples. Both EP1355149 and WO02/059609 take a shot gun approach to screening for target genes which can be used either as a diagnostic tool or as a target for the development of new chemotherapeutic agents.

10 The present invention provides a targeted screen for genes the expression of which may be altered in a response to carbon source. The invention makes use of the differences in expression profiles between normal and diseased tissue as a consequence of differences in metabolic state between cancer cells and normal cells due in part to carbon source utilisation by these respective cell types. The epithelial cells which line the colon and rectum metabolise butyrate as a carbon source for energy transduction via glycolysis. The main carbon source utilised by tumour cells is glucose. Consequently, expression profiles between these cell types are different due to the differences in carbon source metabolism.

20 We have identified a large number of potential markers of colorectal cancer which have utility with respect to the early diagnosis of disease and as targets for the development of novel chemotherapeutic agents. Moreover, this assay has broader applicability to conditions resulting from dysfunction of the bowel (e.g colitis, ulcerative colitis, diversion colitis, Crohn's disease and irritable bowel syndrome. In addition the assay provides a screening tool for fibre consumption and as an assay for colon microflora functionality (the effectiveness of fermentation of specific fibres).

According to an aspect of the invention there is provided a method to screen for nucleic acid molecules which show altered expression in an isolated first cell sample comprising comparing the gene expression profiles between said first cell sample with a second reference cell sample wherein said first cell sample has been grown in

the presence of the carbon source butyrate, or a related carbon source from which butyrate is derived, either directly or indirectly, and comparing said expression profile with the expression profile in said second reference cell sample which has not been grown in the presence of butyrate, or said related carbon source.

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According to a further aspect of the invention there is provided a method to screen for nucleic acid molecules which show altered expression in an isolated biological sample comprising the steps of:

- i) providing
  - 10 a) a cell growth preparation comprising a first cell sample derived from at least one region of the colon; cell growth media; and a carbon source wherein said carbon source is butyrate; and
  - b) a cell growth preparation comprising a second cell sample derived from an equivalent region of the colon; cell growth media; and a
  - 15 carbon source which is not butyrate;
- ii) extracting nucleic acid from said first and second cell samples; and
- iii) comparing the gene expression profile in said first cell sample with the gene expression profile in said second cell sample.

20 In a preferred method of the invention said first and second cell samples are derived from the ascending colon.

In an alternative preferred method of the invention said first and second cell samples are derived from the transverse colon.

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In a further preferred method of the invention said first and second samples are derived from the descending colon.

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In a still further preferred method of the invention said first and second samples are derived from the sigmoid region of the colon. Preferably said cell samples are derived from the rectal region of the colon.



In a further preferred method of the invention said first and second cell samples comprise epithelial cells.

5 In a preferred method of the invention said carbon source which is not butyrate is glucose.

10 In a still further preferred method of the invention said nucleic acid molecule which shows altered expression is selected from the group as represented by the nucleic acid sequences shown in Table 1, or nucleic acid molecules which hybridise to the sequences presented Table 1. Preferably said nucleic acid molecules hybridise under stringent hybridisation conditions.

15 According to a further aspect of the invention there is provided a method for the detection of at least one nucleic acid molecule associated with the initiation and/or progression of colorectal cancer, in an animal, comprising the steps of:

- i) providing a biological sample comprising at least one cell to be tested;
- 20 ii) contacting said sample with a ligand which binds at least one nucleic acid molecule as represented by the nucleic acid sequence selected from the group consisting of:
  - a) a nucleic acid molecule as represented by the nucleic acid sequence as shown in Table 1;
  - 25 b) a nucleic acid molecule which hybridises to nucleic acid molecules as defined in (a);
  - c) a nucleic acid molecule that is degenerate as a consequence of the genetic code to the nucleic acid molecule represented in (a) and (b);
- 30 iii) detecting the presence of at least one nucleic acid molecule in said sample.

In a preferred method of the invention said animal is human.

In a further preferred method of the invention said colorectal cancer is  
5 adenocarcinoma.

In a preferred method of the invention said ligand is a nucleic acid molecule adapted  
to anneal to said nucleic acid molecule which is indicative of colorectal cancer.

10 It will be apparent to the skilled person that a number of nucleic acid based assay  
systems are available which can be adapted to detect nucleic acid molecules as  
hereindisclosed. For example quantitative polymerase chain reaction assays, *in situ*  
hybridisation, northern blots.

15 According to a further aspect of the invention there is provided a method for the  
detection of at least one polypeptide associated with the initiation and/or progression  
of colorectal cancer, in an animal, comprising the steps of:

- i) providing a biological sample comprising at least one cell to be tested;
- ii) contacting said sample with at least one ligand which ligand  
20 specifically binds at least one polypeptide encoded by a nucleic acid  
molecule as represented by the nucleic acid sequence shown in Table  
1, or a variant polypeptide comprising an amino acid sequence which  
varies by the addition, deletion or substitution of at least one amino  
acid residue; and
- 25 iii) detecting the presence of at least one polypeptide in said sample.

In a preferred method of the invention said animal is human.

In a further preferred embodiment of the invention said ligand is an antibody,  
30 preferably a monoclonal antibody, or at least the effective binding part thereof.

Methods which utilise antibodies to detect the presence of a polypeptide in a biological sample are well known in the art and include ELISA's, western blot and immunofluoresence.

- 5 According to a further aspect of the invention there is provided the use of at least one polypeptide, or variant sequence thereof, encoded by a nucleic acid molecule(s) as represented by the nucleic acid sequences as shown in Table 1, as a target for the screening of agents which modulate the activity of said polypeptide.
- 10 According to a yet further aspect of the invention there is provided a method to screen for agents which modulate the activity of at least one gene associated with the initiation and/or progression of colorectal cancer comprising the steps of:
- i) forming a preparation comprising at least one polypeptide wherein said polypeptide is encoded by a nucleic acid molecule as represented  
15 by the nucleic acid sequence as shown in Table 1, or a variant polypeptide comprising an amino acid sequence which varies by the addition, deletion or substitution of at least one amino acid residue as represented by the amino acid sequences shown in Table 1, and at least one agent to be tested; and
  - 20 ii) determining the activity of said agent with respect to activity of said polypeptide.

In a preferred method of the invention said polypeptide is expressed by a cell wherein said cell is transformed or transfected with said nucleic acid molecule. Preferably  
25 said nucleic acid molecule is part of a vector adapted for recombinant expression of said nucleic acid molecule. Preferably said vector is provided with a promoter which enables the expression of said nucleic acid molecule to be regulated.

In a preferred method of the invention said cell is derived from the colon, preferably  
30 said cell is an epithelial cell which lines said colon.

In a further preferred method of the invention said agent is an antibody, preferably a monoclonal antibody or modified antibody, or at least the effective binding part thereof.

- 5 Antibodies, also known as immunoglobulins, are protein molecules which usually have specificity for foreign molecules (antigens). Immunoglobulins (Ig) are a class of structurally related proteins consisting of two pairs of polypeptide chains, one pair of light (L) (low molecular weight) chain ( $\kappa$  or  $\lambda$ ), and one pair of heavy (H) chains ( $\gamma$ ,  $\alpha$ ,  $\mu$ ,  $\delta$  and  $\epsilon$ ), all four linked together by disulphide bonds. Both H and L chains  
10 have regions that contribute to the binding of antigen and that are highly variable from one Ig molecule to another. In addition, H and L chains contain regions that are non-variable or constant.

- The L chains consist of two domains. The carboxy-terminal domain is essentially  
15 identical among L chains of a given type and is referred to as the "constant" (C) region. The amino terminal domain varies from L chain to L chain and contributes to the binding site of the antibody. Because of its variability, it is referred to as the "variable" (V) region.

- 20 The H chains of Ig molecules are of several classes,  $\alpha$ ,  $\mu$ ,  $\sigma$ ,  $\alpha$ , and  $\gamma$  (of which there are several sub-classes). An assembled Ig molecule consisting of one or more units of two identical H and L chains, derives its name from the H chain that it possesses. Thus, there are five Ig isotypes: IgA, IgM, IgD, IgE and IgG (with four sub-classes based on the differences in the 'constant' regions of the H chains, i.e., IgG1, IgG2,  
25 IgG3 and IgG4). Further detail regarding antibody structure and their various functions can be found in, Using Antibodies: A laboratory manual, Cold Spring Harbour Laboratory Press.

In a preferred method of the invention said fragment is a Fab fragment.

In a further preferred method of the invention said antibody is selected from the group consisting of: F(ab')<sub>2</sub>, Fab, Fv and Fd fragments; and antibodies comprising CDR3 regions.

- 5 Preferably said fragments are single chain antibody variable regions (scFV's) or domain antibodies. If a hybridoma exists for a specific monoclonal antibody it is well within the knowledge of the skilled person to isolate scFv's from mRNA extracted from said hybridoma via RT PCR. Alternatively, phage display screening can be undertaken to identify clones expressing scFv's. Domain antibodies are the smallest
- 10 binding part of an antibody (approximately 13kDa). Examples of this technology is disclosed in US6, 248, 516, US6, 291, 158, US6,127, 197 and EP0368684 which are all incorporated by reference in their entirety.

- A modified antibody, or variant antibody and reference antibody, may differ in amino acid sequence by one or more substitutions, additions, deletions, truncations which
- 15 may be present in any combination. Among preferred variants are those that vary from a reference polypeptide by conservative amino acid substitutions. Such substitutions are those that substitute a given amino acid by another amino acid of like characteristics. The following non-limiting list of amino acids are considered
- 20 conservative replacements (similar): a) alanine, serine, and threonine; b) glutamic acid and aspartic acid; c) asparagine and glutamine d) arginine and lysine; e) isoleucine, leucine, methionine and valine and f) phenylalanine, tyrosine and tryptophan. Most highly preferred are variants which show enhanced biological activity.

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Preferably said antibody is a humanised or chimeric antibody.

A chimeric antibody is produced by recombinant methods to contain the variable region of an antibody with an invariant or constant region of a human antibody.

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A humanised antibody is produced by recombinant methods to combine the complementarity determining regions (CDRs) of an antibody with both the constant (C) regions and the framework regions from the variable (V) regions of a human antibody.

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Chimeric antibodies are recombinant antibodies in which all of the V-regions of a mouse or rat antibody are combined with human antibody C-regions. Humanised antibodies are recombinant hybrid antibodies which fuse the complementarity determining regions from a rodent antibody V-region with the framework regions from the human antibody V-regions. The C-regions from the human antibody are also used. The complementarity determining regions (CDRs) are the regions within the N-terminal domain of both the heavy and light chain of the antibody to where the majority of the variation of the V-region is restricted. These regions form loops at the surface of the antibody molecule. These loops provide the binding surface between the antibody and antigen.

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Antibodies from non-human animals provoke an immune response to the foreign antibody and its removal from the circulation. Both chimeric and humanised antibodies have reduced antigenicity when injected to a human subject because there is a reduced amount of rodent (i.e. foreign) antibody within the recombinant hybrid antibody, while the human antibody regions do not elicit an immune response. This results in a weaker immune response and a decrease in the clearance of the antibody. This is clearly desirable when using therapeutic antibodies in the treatment of human diseases. Humanised antibodies are designed to have less "foreign" antibody regions and are therefore thought to be less immunogenic than chimeric antibodies.

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In an alternative preferred method of the invention said agent is a polypeptide or a peptide. Preferably said polypeptide or peptide is modified.

In a preferred method of the invention said peptide is at least 6 amino acid residues in length. Preferably the length of said peptide/polypeptide is selected from the group

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consisting of: at least 7 amino acid residues; 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 20 amino acid residues in length. Alternatively the length of said peptide/polypeptide is at least 20 amino acid residues; 30; 40; 50; 60; 70; 80; 90; or 100 amino acid residues in length.

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It will be apparent to one skilled in the art that modification to the amino acid sequence of peptide agents could enhance the binding and/or stability of the peptide with respect to its target sequence. In addition, modification of the peptide may also increase the *in vivo* stability of the peptide thereby reducing the effective amount of peptide necessary to inhibit the activity of a target polypeptide. This would advantageously reduce undesirable side effects which may result *in vivo*. Alternatively or preferably, said modification includes the use of modified amino acids in the production of recombinant or synthetic forms of peptides. It will be apparent to one skilled in the art that modified amino acids include, by way of example and not by way of limitation, 4-hydroxyproline, 5-hydroxylysine, N<sup>6</sup>-acetyllysine, N<sup>6</sup>-methyllysine, N<sup>6</sup>,N<sup>6</sup>-dimethyllysine, N<sup>6</sup>,N<sup>6</sup>,N<sup>6</sup>-trimethyllysine, cyclohexylalanine, D-amino acids, ornithine. Other modifications include amino acids with a C<sub>2</sub>, C<sub>3</sub> or C<sub>4</sub> alkyl R group optionally substituted by 1, 2 or 3 substituents selected from halo (e.g. F, Br, I), hydroxy or C<sub>1</sub>-C<sub>4</sub> alkoxy. Modifications also include, by example and not by way of limitation, acetylation and amidation.

In a preferred embodiment of the invention said peptide sequence is acetylated. Preferably said acetylation is to the amino terminus of said peptide.

25 In a further preferred embodiment of the invention said peptide sequence is amidated. Preferably said amidation is to the carboxyl-terminus of said peptide.

It will also be apparent to one skilled in the art that peptides could be modified by cyclisation. Cyclisation is known in the art, (see Scott *et al* Chem Biol (2001), 8:801-815; Gellerman *et al* J. Peptide Res (2001), 57: 277-291; Dutta *et al* J. Peptide

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Res (2000), 8: 398-412; Ngoka and Gross J Amer Soc Mass Spec (1999), 10:360-363.

In a further preferred method of the invention said agent is nucleic acid molecule.

5 Preferably said nucleic acid molecule is an aptamer or a modified aptamer. In an alternative preferred method of the invention said nucleic acid is an inhibitory RNA (RNAi) molecule. Alternatively said nucleic acid molecule is an antisense nucleic acid molecule.

10 Nucleic acids have both linear sequence structure and a three dimensional structure which in part is determined by the linear sequence and also the environment in which these molecules are located. Conventional therapeutic molecules are small molecules, for example, peptides, polypeptides, or antibodies, which bind target molecules to produce an agonistic or antagonistic effect. It has become apparent that  
15 nucleic acid molecules also have potential with respect to providing agents with the requisite binding properties which may have therapeutic utility. These nucleic acid molecules are typically referred to as aptamers. Aptamers are small, usually stabilised, nucleic acid molecules which comprise a binding domain for a target molecule. A screening method to identify aptamers is described in US 5,270,163,  
20 which is incorporated by reference. Aptamers are typically oligonucleotides which may be single stranded oligodeoxynucleotides, oligoribonucleotides, or modified oligodeoxynucleotide or oligoribonucleotides.

The term "modified" encompasses nucleotides with a covalently modified base  
25 and/or sugar. For example, modified nucleotides include nucleotides having sugars which are covalently attached to low molecular weight organic groups other than a hydroxyl group at the 3' position and other than a phosphate group at the 5' position. Thus modified nucleotides may also include 2' substituted sugars such as 2'-O-methyl-; 2-O-alkyl; 2-O-allyl; 2'-S-alkyl; 2'-S-allyl; 2'- fluoro-; 2'-halo or 2'-azido-  
30 ribose, carbocyclic sugar analogues a-anomeric sugars; epimeric sugars such as arabinose, xyloses or lyxoses, pyranose sugars, furanose sugars, and sedoheptulose.



Modified nucleotides are known in the art and include by example and not by way of limitation; alkylated purines and/or pyrimidines; acylated purines and/or pyrimidines; or other heterocycles. These classes of pyrimidines and purines are known in the art and include, pseudoisocytosine; N4, N4-ethanocytosine; 8-hydroxy-N6-methyladenine; 4-acetylcytosine, 5-(carboxyhydroxymethyl) uracil; 5-fluorouracil; 5-bromouracil; 5-carboxymethylaminomethyl-2-thiouracil; 5-carboxymethylaminomethyl uracil; dihydrouracil; inosine; N6-isopentyl-adenine; 1-methyladenine; 1-methylpseudouracil; 1-methylguanine; 2,2-dimethylguanine; 2-methyladenine; 2-methylguanine; 3-methylcytosine; 5-methylcytosine; N6-methyladenine; 7-methylguanine; 5-methylaminomethyl uracil; 5-methoxy amino methyl-2-thiouracil;  $\beta$ -D-mannosylqueosine; 5-methoxycarbonylmethyluracil; 5-methoxyuracil; 2 methylthio-N6-isopentenyladenine; uracil-5-oxyacetic acid methyl ester, psueouracil; 2-thiocytosine; 5-methyl-2 thiouracil, 2-thiouracil; 4-thiouracil; 5-methyluracil; N-uracil-5-oxyacetic acid methylester; uracil 5—oxyacetic acid; queosine; 2-thiocytosine; 5-propyluracil; 5-propylcytosine; 5-ethyluracil; 5-ethylcytosine; 5-butyluracil; 5-pentyluracil; 5-pentylcytosine; and 2,6-diaminopurine; methylpsuedouracil; 1-methylguanine; 1-methylcytosine.

The aptamers of the invention are synthesized using conventional phosphodiester linked nucleotides and synthesized using standard solid or solution phase synthesis techniques which are known in the art. Linkages between nucleotides may use alternative linking molecules. For example, linking groups of the formula P(O)S, (thioate); P(S)S, (dithioate); P(O)NR'<sup>2</sup>; P(O)R'; P(O)OR<sub>6</sub>; CO; or CONR'<sup>2</sup> wherein R is H (or a salt) or alkyl (1-12C) and R<sub>6</sub> is alkyl (1-9C) is joined to adjacent nucleotides through -O- or -S-. The binding of aptamers to a target polypeptide is readily testable.

An alternative nucleic acid molecule is a so called RNAi molecule. A recent technique to specifically ablate gene function is through the introduction of double stranded RNA, also referred to as inhibitory RNA (RNAi), into a cell which results

in the destruction of mRNA complementary to the sequence included in the RNAi molecule. The RNAi molecule comprises two complementary strands of RNA (a sense strand and an antisense strand) annealed to each other to form a double stranded RNA molecule. The RNAi molecule is typically derived from exonic or coding sequence of the gene which is to be ablated. Recent studies suggest that RNAi molecules ranging from 100-1000bp derived from coding sequence are effective inhibitors of gene expression. Surprisingly, only a few molecules of RNAi are required to block gene expression which implies the mechanism is catalytic. The site of action appears to be nuclear as little if any RNAi is detectable in the cytoplasm of cells indicating that RNAi exerts its effect during mRNA synthesis or processing.

In a preferred method of the invention there is provided a cassette comprising a nucleic acid molecule, or part thereof, wherein said molecule is selected from the group consisting of:

- i) a nucleic acid molecule represented by the nucleic acid sequence shown in Table 1 ;
- ii) a nucleic acid molecule which hybridises to the sequence in (i) above and which encodes a polypeptide which initiates or promotes transformation of colon cells; or
- iii) a nucleic acid molecule which is degenerate because of the genetic code to the sequences defined in (i) and (ii) above, wherein said cassette is adapted such that both sense and antisense nucleic acid molecules are transcribed from said cassette.

In a preferred method of the invention said cassette is provided with at least two promoters adapted to transcribe both sense and antisense strands of said nucleic acid molecule.

In a further preferred method of the invention said cassette comprises a nucleic acid molecule wherein said molecule comprises a first part linked to a second part wherein said first and second parts are complementary over at least part of their

sequence and further wherein transcription of said nucleic acid molecule produces an RNA molecule which forms a double stranded region by complementary base pairing of said first and second parts.

- 5 In a preferred embodiment of the invention said first and second parts are linked by at least one nucleotide base.

In a preferred embodiment of the invention said first and second parts are linked by 2, 3, 4, 5, 6, 7, 8, 9 or at least 10 nucleotide bases.

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In a further preferred embodiment of the invention the length of the RNAi molecule is between 100bp-1000bp. More preferably still the length of RNAi is selected from 100bp; 200bp; 300bp; 400bp; 500bp; 600bp; 700bp; 800bp; 900bp; or 1000bp. More preferably still said RNAi is at least 1000bp.

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In an alternative preferred method of the invention the RNAi molecule is between 15bp and 25bp, preferably said molecule is 21bp. Preferably said cassette is part of a vector.

- 20 According to a further aspect of the invention there is provided an antibody identified by the method according to the invention for use as a pharmaceutical.

According to a further aspect of the invention there is provided a polypeptide or peptide identified by the method according to the invention for use as a  
25 pharmaceutical.

According to a further aspect of the invention there is provided a nucleic acid molecule identified by the method according to the invention for use as a  
30 pharmaceutical.

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In a preferred embodiment of the invention said nucleic acid molecule is an aptamer.

In an alternative preferred embodiment of the invention said nucleic acid molecule is an inhibitory RNA.

- 5 In a further alternative preferred embodiment of the invention said nucleic acid molecule is an antisense nucleic acid molecule.

In a preferred embodiment of the invention said pharmaceutical further comprises a diluent, carrier or excipient.

- 10 When administered, the therapeutic compositions of the present invention are administered in pharmaceutically acceptable preparations. Such preparations may routinely contain pharmaceutically acceptable concentrations of salt, buffering agents, preservatives, compatible carriers, supplementary immune potentiating agents such as adjuvants and cytokines and optionally other therapeutic agents, such as  
15 chemotherapeutic agents.

The therapeutics of the invention can be administered by any conventional route, including injection or by gradual infusion over time. The administration may, for example, be oral, intravenous, intraperitoneal, intramuscular, intracavity,  
20 subcutaneous, or transdermal. When antibodies are used therapeutically, a preferred route of administration is by pulmonary aerosol. Techniques for preparing aerosol delivery systems containing antibodies are well known to those of skill in the art. Generally, such systems should utilize components which will not significantly impair the biological properties of the antibodies, such as the paratope binding  
25 capacity (see, for example, Sciarra and Cutie, "Aerosols," in Remington's Pharmaceutical Sciences, 18th edition, 1990, pp 1694-1712; incorporated by reference). Those of skill in the art can readily determine the various parameters and conditions for producing antibody aerosols without resort to undue experimentation. When using antisense preparations of the invention, slow intravenous administration  
30 is preferred.

The compositions of the invention are administered in effective amounts. An "effective amount" is that amount of a composition that alone, or together with further doses, produces the desired response. In the case of treating a particular disease, such as cancer, the desired response is inhibiting the progression of the disease. This may involve only slowing the progression of the disease temporarily, although more preferably, it involves halting the progression of the disease permanently. This can be monitored by routine methods or can be monitored according to diagnostic methods of the invention discussed herein.

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Such amounts will depend, of course, on the particular condition being treated, the severity of the condition, the individual patient parameters including age, physical condition, size and weight, the duration of the treatment, the nature of concurrent therapy (if any), the specific route of administration and like factors within the knowledge and expertise of the health practitioner. These factors are well known to those of ordinary skill in the art and can be addressed with no more than routine experimentation. It is generally preferred that a maximum dose of the individual components or combinations thereof be used, that is, the highest safe dose according to sound medical judgment. It will be understood by those of ordinary skill in the art, however, that a patient may insist upon a lower dose or tolerable dose for medical reasons, psychological reasons or for virtually any other reasons.

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The pharmaceutical compositions used in the foregoing methods preferably are sterile and contain an effective amount for producing the desired response in a unit of weight or volume suitable for administration to a patient. The response can, for example, be determined by measuring the physiological effects of the composition, such as regression of a tumour, decrease of disease symptoms, modulation of apoptosis, etc.

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The doses of pharmaceutical agent administered to a subject can be chosen in accordance with different parameters, in particular in accordance with the mode of

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administration used and the state of the subject. Other factors include the desired period of treatment. In the event that a response in a subject is insufficient at the initial doses applied, higher doses (or effectively higher doses by a different, more localized delivery route) may be employed to the extent that patient tolerance permits.

In general, doses of pharmaceutical are formulated and administered in doses between 1 ng and about 500mg, and between 10 ng and 100mg, according to any standard procedure in the art. Where nucleic acids are employed, doses of between 1 ng and 0.1mg generally will be formulated and administered according to standard procedures. Other protocols for the administration of compositions will be known to one of ordinary skill in the art, in which the dose amount, schedule of injections, sites of injections, mode of administration (e.g., intra-tumoral) and the like vary from the foregoing. Administration of pharmaceutical compositions to mammals other than humans, e.g. for testing purposes or veterinary therapeutic purposes, is carried out under substantially the same conditions as described above. A subject, as used herein, is a mammal, preferably a human, and including a non-human primate, cow, horse, pig, sheep, goat, dog, cat or rodent.

When administered, the pharmaceutical preparations of the invention are applied in pharmaceutically-acceptable amounts and in pharmaceutically-acceptable compositions. The term "pharmaceutically acceptable" means a non-toxic material that does not interfere with the effectiveness of the biological activity of the active ingredients. Such preparations may routinely contain salts, buffering agents, preservatives, compatible carriers, and optionally other therapeutic agents. When used in medicine, the salts should be pharmaceutically acceptable, but non-pharmaceutically acceptable salts may conveniently be used to prepare pharmaceutically-acceptable salts thereof and are not excluded from the scope of the invention. Such pharmacologically and pharmaceutically-acceptable salts include, but are not limited to, those prepared from the following acids: hydrochloric, hydrobromic, sulfuric, nitric, phosphoric, maleic, acetic, salicylic, citric, formic,

malonic, succinic, and the like. Also, pharmaceutically-acceptable salts can be prepared as alkaline metal or alkaline earth salts, such as sodium, potassium or calcium salts.

5 Pharmaceutial compositions may be combined, if desired, with a pharmaceutically-acceptable carrier. The term "pharmaceutically-acceptable carrier" as used herein means one or more compatible solid or liquid fillers, diluents or encapsulating substances which are suitable for administration into a human. The term "carrier" denotes an organic or inorganic ingredient, natural or synthetic, with which the active  
10 ingredient is combined to facilitate the application. The components of the pharmaceutical compositions also are capable of being co-mingled with the molecules of the present invention, and with each other, in a manner such that there is no interaction which would substantially impair the desired pharmaceutical efficacy.

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The pharmaceutical compositions may contain suitable buffering agents, including: acetic acid in a salt; citric acid in a salt; boric acid in a salt; and phosphoric acid in a salt.

20 The pharmaceutical compositions also may contain, optionally, suitable preservatives, such as: benzalkonium chloride; chlorobutanol; parabens and thimerosal.

The pharmaceutical compositions may conveniently be presented in unit dosage form  
25 and may be prepared by any of the methods well-known in the art of pharmacy. All methods include the step of bringing the active agent into association with a carrier which constitutes one or more accessory ingredients. In general, the compositions are prepared by uniformly and intimately bringing the active compound into association with a liquid carrier, a finely divided solid carrier, or both, and then, if  
30 necessary, shaping the product.

Compositions suitable for oral administration may be presented as discrete units, such as capsules, tablets, lozenges, each containing a predetermined amount of the active compound. Other compositions include suspensions in aqueous liquids or non-aqueous liquids such as a syrup, elixir or an emulsion.

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Compositions suitable for parenteral administration conveniently comprise a sterile aqueous or non-aqueous preparation of pharmaceutical agents, which is preferably isotonic with the blood of the recipient. This preparation may be formulated according to known methods using suitable dispersing or wetting agents and  
10 suspending agents. The sterile injectable preparation also may be a sterile injectable solution or suspension in a non-toxic parenterally-acceptable diluent or solvent, for example, as a solution in 1,3-butane diol. Among the acceptable vehicles and solvents that may be employed are water, Ringer's solution, and isotonic sodium chloride solution. In addition, sterile, fixed oils are conventionally employed as a  
15 solvent or suspending medium. For this purpose any bland fixed oil may be employed including synthetic mono- or di-glycerides. In addition, fatty acids such as oleic acid may be used in the preparation of injectables. Carrier formulation suitable for oral, subcutaneous, intravenous, intramuscular, etc. administrations can be found in Remington's Pharmaceutical Sciences, Mack Publishing Co., Easton, PA.

20

An embodiment of the invention will now be described by example only and with reference to the following Figures and Tables;

Figure 1 illustrates a concentration-response of cells growing in butyrate as sole  
25 carbon source. This is the summary of four independent repeat experiments. Legend shows butyrate concentrations in mM;

Figure 2 illustrates the purity and quality of RNA preparation. The 28S and 18S sample bands are tight and clearly resolved for RNA prepared from butyrate- and  
30 glucose-grown cells. Little or no DNA or salt contamination appears in the samples;



Table1 illustrates nucleic acid sequences identified by the screening method according to the invention; and

- 5 Table 2 illustrates a summary of expression data of nucleic acid sequences identified in Table 1.

### Materials and Methods

- 10 We have compared the expression profiles of colon cells growing in either glucose or butyrate as a carbon source. HT 29 colon carcinoma cells were cultured in DMEM medium (Gibco) in the presence of 10% foetal calf serum, penicillin and streptomycin. Cells were either cultured in glucose alone as the sole carbon source, or
- 15 HT29 cells grown in multiple butyrate concentrations revealed that 2mM butyrate was optimal for cell culture in the absence of glucose. Cells were cultured in either medium for multiple passages (typically 4). RNA was extracted from cells grown in each condition and used to probe an Affymetrix human 12k array. The expression profile of cells cultured in each condition was compared and genes altered in
- 20 expression by more than 2 fold are listed in Table 2.

### Materials used during this study

<u>ITEM</u>	<u>ITEM - SPECIFICS</u>	<u>SUPPLIER</u>
Glucose medium (1)	Dulbecco's Modified Eagle Medium 25 mM HEPES 1 x 0.1 micron filtered with sodium pyruvate, with 1000	GIBCO

	mg/l glucose with pyridoxine + FCS + p/s (500 ml)	
Butyrate medium (2) 0.2 mM NaB medium	Dulbecco's Modified Eagle Medium 1 x 0.1 micron filtered with L-glutamine without glucose, without sodium pyruvate + NaB (1M) 110 $\mu$ l + FCS + p/s (555.1 ml)	GIBCO
Butyrate medium (3) 2 mM NaB medium	Dulbecco's Modified Eagle Medium 1 x 0.1 micron filtered with L-glutamine without glucose, without sodium pyruvate + NaB (1M) 1100 $\mu$ l + FCS + p/s (556.1 ml)	GIBCO
Medium without glucose and without butyrate (4)	Dulbecco's Modified Eagle Medium 1 x 0.1 micron filtered with L-glutamine without glucose, without sodium pyruvate + FCS + p/s (550 ml)	GIBCO
NaB stock	Sodium Butyrate powder dissolved in sterile water 250 mg in 2.27 ml water	Sigma

	(1M) 0.2 $\mu$ m filter sterilised	
Sterile syringes	5 ml	Becton Dickinson UK, Ltd
Sterilising filters	0.2 $\mu$ m Acrodisc	Gelman Sciences, Ltd
<u>Item</u>	<u>Item specifics</u>	<u>Supplier</u>
FCS	Foetal Calf Serum 50 ml per 500 ml DMEM	Harlan Sera Lab
P/S	Penicillin - Streptomycin solution 100ml bottle (100 X) - 5 ml per 500 ml DMEM	Sigma
TE for splitting cells	Trypsin Enzyme - 100 ml bottle - 3 ml per T75 and 1 ml per 6 well plate well	Sigma
FCS tubes	50 ml Centrifuge tubes	Corning Inc
P/S + TE tubes	30 ml Universal containers	Bibby Sterilin Ltd
Tissue Culture Plates	6 well sterile with lid single packed	Greiner bio-one
Tissue Culture Flasks	T 75	Nuncclon
Stripette ® 5ml, 10ml,	Serological Pipette,	Corning Inc / Costar

25 ml	individually wrapped	
Pipette	Powerpette plus	Jencons
Cell Counting Slide	Haemocytometer, improved Neubauer	Neubauer
Ethanol for tissue culture	70 % EtOH	Sigma
Virkon for cell culture	1 % Virkon	Day Impex, Ltd
Microscope for cell work	Light 6 – 10X	CK Olympus, Tokyo
Paper towels	Blue	Jamont (UK), Ltd
Latex-free examination gloves	Large	Shermond Surgical Supply, Ltd
<b><u>Item</u></b>	<b><u>Item specifics</u></b>	<b><u>Supplier</u></b>
RNA extraction reagent	TRIzol ® Reagent	Invitrogen – Life technologies
RNA extraction reagent	Chloroform	Sigma
RNA extraction reagent	Isopropyl alcohol	Sigma

RNA extraction reagent	75% EtOH in DEPC-treated water	Sigma
RNA extraction reagent	Rnase-free water	Sigma
RNA clean up kit	Rneasy Midi Kit (10 RNeasy midi spin columns)	Qiagen
$\beta$ - Mercaptoethanol	14.3 M stock solution	Sigma
Ethanol for Qiagen	96-100% EtOH	Sigma
Agarose	1g in 100 ml TB-EDTA-Buffer	Helena Biosciences, UK
TB-EDTA- Buffer	Tris-Borate-EDTA buffer 100ml	Sigma
Eppendorf tubes	1.5 ml	Sarstedt Laboratory supplies, Ltd
Loading buffer	6 X	Promega

#### The Human Colon Carcinoma Cell Line - HT29

5 The HT29 cell line is established from a colon adenocarcinoma which was removed from a 44 year old Caucasian woman. The cell line is epithelial in origin and hypertriploid. It has been shown to be tumourigenic in nude mice and synthesizes Carcino embryonic antigen - CEA (Egan & Todd, 1972) and the Transforming

growth factors - TGF- $\alpha$  and TGF- $\beta$  (Anzano *et al.* 1989) when maintained *in vitro*. The HT29 cell line constitutively over-produces mutant p53 protein as a consequence of a point mutation at codon 273, resulting in an Arginine to Histidine amino acid substitution (Hsu *et al.* 1994).

5

#### The Culture of HT29 Colorectal adenocarcinoma cells

Cells were cultured in T75 tissue culture flasks (Nunc) in 5% CO<sub>2</sub> at 37°C. Cells were passaged when confluent by washing twice in PBS and incubating in pre-warmed trypsin : EDTA (1:1) at 37°C until cells detached. The cells were then  
10 re-suspended in the appropriate growth medium, either glucose DMEM or butyrate DMEM before being seeded into new T75 tissue culture flasks or 6-well plates.

#### Optimisation of HT29 cell growth in butyrate as sole extraneous carbon source

15

HT29 cells were seeded out into 19 wells (in 6 well plates) at a cell density of 0.5 x 10<sup>6</sup> cells per well (i.e. 500 000 cells per well) deduced with the aid of a Haemocytometer (Improved Neubauer). These cells were taken from T75 - 0.2 mM butyrate (NaB) DMEM flasks and allowed to adhere to the 6-well plates over 72 hrs  
20 also in 0.2 mM NaB DMEM with FCS and Penicillin / Streptomycin antibiotics. After the cells had adhered to the surface of the 6 well plates the 0.2 mM NaB DMEM was removed and each well was washed twice with PBS in order to remove all traces of the 0.2 mM DMEM, then different concentrations of NaB DMEM with FCS and with Penicillin / Streptomycin antibiotics were added to the appropriate  
25 wells in triplicate. Cell counts were taken at various time points. Specific media was changed daily in order to maintain the appropriate / desired NaB concentrations per well. All solutions / reagents used were pre-warmed in a water bath prior to use so as to avoid any cold shock to the cells.

30

### RNA extraction using TRIzol® Reagent

Total RNA was extracted from HT29 cells grown to confluence in T75 flasks using TRIzol Reagent as per manufacturer's recommendations. Cells were grown for  
5 several passages either in butyrate-containing medium, or in glucose-containing medium prior to extraction of RNA

Cells were homogenised using 1 ml TRIzol Reagent per 10 cm<sup>2</sup> area of culture surface. The homogenised samples were incubated for 5 minutes at ambient  
10 temperature to permit the complete dissociation of nucleoprotein complexes. 200µl of chloroform was added to each sample. Tubes were shaken vigorously by hand for 15 seconds and incubated at ambient temperature for 3 minutes. Samples were centrifuged at 12000g for 15 minutes at 4°C. RNA in the aqueous phase was separated and precipitated using isopropyl alcohol. RNA was rinsed, air dried and  
15 redissolved in RNase-free water.

RNA was further purified using Qiagen RNeasy columns. The columns were used exactly as per manufacturer's recommendations. RNA was eluted into RNase-free water.

20

RNA purified in this way was analysed by agarose gel to establish purity and quality. The gel is shown in figure 2.

### Microarray analysis

25

Microarray analysis was undertaken as a commercial service by the University of Newcastle-upon-Tyne. In this study, the 2 RNA samples (1x butyrate + 1x glucose) from the 2 experimental conditions (butyrate + glucose) were sent to the Institute for Human Genetics at the University of Newcastle-upon-Tyne for microarray analysis.  
30 This was performed on a 12 k Affymetrix *Homo sapiens* gene chip. Genes altered in expression by more than 2 fold on the microarray are listed in table 1.

Table 1

Human mitochondrial ADP/ADT translocator mRNA, complete cds.

ccccctagcg	tcgcgcaggg	tcggggactg	cgcgcggtgc	caggccgggc	gtgggcgaga	60
gcacgaacgg	gctgctgcgg	gctgagagcg	tcgagctgtc	accatgggtg	atcacgcttg	120
gagcttccta	aaggacttcc	tggccggggc	ggtcgccgct	gccgtctcca	agaccgcggt	180
cgcccccatc	gagaggggtca	aactgctgct	gcaggtccag	catgccagca	aacagatcag	240
tgctgagaag	cagtacaaag	ggatcattga	ttgtgtggtg	agaatcccta	aggagcaggg	300
cttcctctcc	ttctggaggg	gtaacctggc	caacgtgac	cgttacttcc	ccaccaagc	360
tctcaacttc	gccttcaagg	acaagtacaa	gcagctcttc	ttagggggtg	tggatcggca	420
taagcagttc	tggcgctact	ttgctggtaa	cctggcgctc	gggtggggccg	ctggggccac	480
ctccctttgc	tttgtctacc	cgctggactt	tgctaggacc	aggttggtcg	ctgatgtggg	540
caggcgcgcc	cagcgtgagt	tccatggtct	ggcgactgt	atcatcaaga	tcttcaagtc	600
tgatggcctg	agggggctct	accagggttt	caacgtctct	gtccaaggca	tcattatcta	660
tagagctgcc	tacttcggag	tctatgatac	tgccaagggg	atgctgcctg	acccaagaa	720
cgtgcacatt	tttgtgagct	ggatgattgc	ccagagtgtg	acggcagtcg	cagggtgctg	780
gtcctacccc	tttgacactg	ttcgtcgtag	aatgatgatg	cagtccggcc	ggaaaggggc	840
cgatattatg	tacacgggga	cagttgactg	ctggaggaag	attgcaaaag	acgaaggagc	900
caaggccttc	ttcaaaggtg	cctggtccaa	tgtgctgaga	ggcatgggcg	gtgcttttgt	960
attggtgttg	tatgatgaga	tcaaaaaata	tgtctaattg	aattaaaaca	caagttcaca	1020
gatttacatg	aacttgatct	acaagttcac	agatccattg	tgtggtttaa	tagactattc	1080
ctaggggaag	taaaaagatc	tgggataaaa	ccagactgaa	aggaatacct	cagaagagat	1140
gcttcattga	gtgttcatta	aaccacacat	gtattttgta	tttattttac	atttaaattc	1200
ccacagcaaa	tagaaataat	ttatcatact	tgtacaatta	actgaagaat	tgataataac	1260
tgaatgtgaa	acatcaataa	agaccactta	atgcacaaaa	aaaaaaaaaa	aaaaaaaaaa	1320



## Homo sapiens mRNA for VNN1 protein

cattggactt	cagcatgact	actcagttgc	cagcttaoct	ggcaattttg	cttttctatg	60
tctcaagagc	cagctgccag	gacactttca	ttgcagctgt	ttatgagcat	gcagcgatat	120
tgcccaatgc	caccctaaca	ccagtgtctc	gtgaggaggc	tttggcatta	atgaatcgga	180
atctggacat	tttggaaagg	gcgatcacat	cagcagcaga	tcagggtgcg	catattattg	240
tgactccaga	agatgctatt	tatggctgga	acttcaacag	ggactctctc	tacccatatt	300
tgaggagcat	cccagaccct	gaagtaaaact	ggatcccttg	taataatcgt	aacagatttg	360
gccagacccc	agtacaagaa	agactcagct	gcctggccaa	gaacaactct	atctatgttg	420
tggaataat	tggggacaag	aagccatgcg	ataccagtga	tcctcagtgt	ccccctgatg	480
gccgttacca	atacaacact	gatgtggtat	ttgattctca	aggaaaactg	gtggcacgct	540
accataagca	aaaccttttc	atgggtgaaa	atcaattcaa	tgtacccaag	gagcctgaga	600
ttgtgacttt	caataccacc	tttggaaagt	ttggcatttt	cacatgcttt	gatatactct	660
tccatgatcc	tgtgtttacc	ttgggtgaaag	atttccacgt	ggacaccata	gtattcccaa	720
cagcttggtg	gaatgttttg	ccacatttgt	cagctgttga	attccactca	gcttgggcta	780
tggtgcatag	ggcgaatttc	cttgcaccca	acatacatta	cccctcaaag	aaaatgacag	840
gaagtggcat	ctatgcaccc	aattcttcaa	gagcatttca	ttatgatatg	agacagaaag	900
agggaaaact	cctcctctcg	caactggatt	cccacccatc	ccattctgca	gtgggtgaact	960
ggacttccta	tgccagcagt	atagaagcgc	tctcatcagg	aaacaaggaa	tttaaaggca	1020
ctgtcttttt	cgatgaattc	acttttctga	agctcacagg	agttgcagga	aattatacag	1080
tttgtcagaa	agatctctgc	tgtcatttaa	gctacaaaat	gtctgagaac	ataccaaatg	1140
aagtgtacgc	tctaggggca	tttgacggac	tgcacactgt	gggaaggcgc	tattatctac	1200
agatttgtac	cctgttgaaa	tgtaaaacga	ctaattttaa	cacttgcggg	gactcagctg	1260
aaacagcttc	taccaggttt	gaaatgttct	ccctcagtgg	cactttcgga	accagtatg	1320
tctttctctga	ggtgttgctg	agtgaataat	agcttgcacc	tggagaattt	caggtgtcaa	1380
ctgacggacg	cttgttttagt	ctgaagccaa	catccggacc	tgtcttaaca	gtaactctgt	1440
ttgggaggtt	gtatgagaag	gactgggcat	caaagtcttc	atcaggcctc	acagcacaag	1500
caagaataat	aatgctaata	gttatagcac	ctattgtatg	ctcattaaat	tggtagaata	1560
ttgacttttt	ctctttttta	tttgggataa	tttaaaaaat	gatggatgag	aaaagaaaga	1620
ttggtccggg	ttaatatatt	cctctagtat	aagtgaatta	ctagtttctc	tttatttaga	1680
caaacacaca	cacaccagat	aatataaaact	taataaatta	tctgttaatg	tagattttat	1740
ttaaaaaact	atatttgaac	attggctctt	cttggacgtg	agctaattat	atcaataaag	1800
tatcacaat	cttttacgca	gaagaaataa	aaactacggg	tagaaaacat	aagaactatc	1860
ataaaattta	cttacaagga	ggctgctctt	gttaccactt	ttattatatt	acgtatcact	1920
tattcagctc	tgtgaaaat	ttccaatgac	tttgtttgtt	tgtcttttta	gttttttacc	1980
taaacataac	attttgattc	tcttgtgggt	tgataatgtc	tcccaaaaat	ttacatgttg	2040
aagcacctca	gaatgtgact	gtatttggag	acagggtctt	taaagaggta	aaataagggtc	2100
attaggatag	accctaattc	aatatgactg	atgatcataa	aagaagaggc	gagtagggca	2160
caacaggcac	aaaggagagc	cataaggaga	cacagaggaa	ggacaactct	ttacaagcta	2220
agaagagagg	gcctcagaag	aaaccaaccc	tgccaacacc	ttgatcttgg	acttccagcc	2280
tccaaaacta	tgagaaataa	atttctattg	tttaagtca	ccagtccatg	gtactttgtt	2340
aggcagccct	ggcaaatgaa	tcaaagaccc	attctctgtt	ctctccccac	cactactgtt	2400
ttctactgta	atctgaagct	tcaacaaaag	gcttacctgg	taagaatatt	cagctgggtct	2460
gggtcctcaa	gactccaata	gacactctta	aagaaggatt	gctgatggat	tgatagttaa	2520
accattagat	cattgaattc	ctctggaatt	agaaaaccag	agagtcccat	tttaagaaat	2580
tagatattta	atatagcatt	gtgtgttcta	ttttagtaac	agcagaatct	cttgacatta	2640
cacaactcag	tgaaacaaca	tcattttaagc	caaaatatct	cccaactgac	tgatagactc	2700
tgagcactaa	tatcatagt	ctgtgatgat	ggacaattac	atagtaccga	taacagccat	2760
gcactgtgca	aagcatgccc	ttctgcacag	gagagcaagg	cacttgacgt	agtgatctat	2820
gccagcaaaa	catcattttg	agacaaacat	tttctgggca	gatgtttttc	ctaaaaagta	2880
ctatatcatc	caagaaatat	ttgagtataa	tcccttggtc	tttgggtgga	cattaaactga	2940
catttgcttt	ttttcaagac	ctaatagaaa	ataagaaagc	ccataatgta	tttagaaaca	3000
ggaatcctca	gagcaattct	ctgtattctc	atataatttc	aatgtaaaac	agaaaacata	3060
ttgatgtgtt	ggtgataggc	ttgaattatt	aaaaacttca	aaaacaaaa		3109

## Homo sapiens transmembrane protein 5, mRNA

ggctgggcct	gcctcggacg	ccgcgggtgt	cgcggtattct	ctttccgccc	gctccatggc	60
ggtggatgcc	tgactggaag	cccgagtggg	atgcggctga	cgcggaagcg	gctctgctcg	120
tttcttatcg	ccctgtactg	cctattctcc	ctctacgctg	cctaccacgt	cttcttcggg	180
cgccgcccgc	agcgccggc	cggtccccc	cggggcctca	ggaagggggc	ggccccgcg	240
cgggagagac	gcggccgaga	acagtccact	ttggaaagt	aagaatggaa	tccttgggaa	300
ggagatgaaa	aaaatgagca	acaacacaga	tttaaaacta	gccttcaa	attagataaa	360
tccacgaaag	gaaaaacaga	tctcagtgt	caaactctgg	gcaaagctgc	cattggcttg	420
tatctctggg	agcatatttt	tgaaggctta	cttgatccca	gcgatgtgac	tgctcaatgg	480
agagaaggaa	agtcaatcgt	aggaagaaca	cagtacagct	tcatcactgg	tccagctgta	540
ataccagggg	acttctccgt	tgatgtgaat	aatgtggtac	tcatttttaa	tggaagagaa	600
aaagcaaaga	tcttttatgc	caccagctgg	ttactttatg	cacaaaattt	agtgcaaatt	660
caaaaactcc	agcatcttgc	tggtgttttg	ctcggaatg	aacattgtga	taatgagtgg	720
ataaacccat	tcctcaaaag	aaatggaggc	ttcgtggagc	tgcttttcat	aatatatgac	780
agcccctgga	ttaatgacgt	ggatgttttt	cagtggcctt	taggagtagc	aacatacagg	840
aattttcctg	tggtggaggc	aagttggtca	atgctgcatg	atgagaggcc	atatttatgt	900
aattttcttag	gaacgattta	tgaaaattca	tccagacagg	cactaatgaa	cattttgaaa	960
aaagatggga	acgataagct	ttggtgggtt	tcagcaagag	aacactggca	gcctcaggaa	1020
acaaatgaaa	gtcttaagaa	ttaccaagat	gccttgcttc	agagtgatct	cacattgtgc	1080
ccggtcggag	taaacacaga	atgctatcga	atctatgagg	cttgctccta	tggtccatt	1140
cctgtggtgg	aagacgtgat	gacagctggc	aactgtggga	atacatctgt	gcaccacggt	1200
gctcctctgc	agttactcaa	gtccatgggt	gctcccttta	tctttatcaa	gaactggaag	1260
gaactccctg	ctgtttttaga	aaaagagaaa	actataattt	tacaagaaaa	aattgaaaga	1320
agaaaaatgt	tacttcagt	gtatcagcac	ttcaagacag	agcttaaaat	gaaatttact	1380
aatatttttag	aaagctcatt	tttaatgaat	aataaaagt	aattatcttt	ttgagctaaa	1440
aaaaaaaa	aaaaaaaa	aaaaaaaa				

## Homo sapiens CD3e-associated protein (CAST) mRNA, complete cds.

cccaggatgg	aggagcccca	ggcggcggt	gaggatgctg	ctcggttctc	ttgtccccc	60
aactttaccg	cgaagcccc	agcctcagag	tccctcggt	tctccttga	ggcgtgacg	120
ggtcagata	cggagctgtg	gcttattcag	gcccctgcag	actttgcccc	agaatgcttc	180
aatgggcggc	atgtgcctct	ctctggctcc	cagatcgta	agggcaaatt	ggcaggcaag	240
cggcaccgct	atcgagtcct	cagcagctgt	ccccaagctg	gagaagcgac	cctgctggcc	300
ccctcaacgg	aggcaggagg	tggactcacc	tgtgcctcag	ccccccagg	caccctaagg	360
atccttgagg	gtccccagca	atccctgtca	gggagccctc	tgcagcccat	cccagcaagt	420
ccccaccac	agatccctcc	tggcctgagg	cctcggttct	gtgccttttg	gggcaaccca	480
ccagtacacg	ggcctaggtc	agccttggcc	cccaacctgc	tcacctcagg	gaagaagaaa	540
aaggagatgc	aggtgacaga	ggccccagtc	actcaggagg	cagtgaatgg	gcacggggcc	600
ctggagggtg	acatggcttt	ggggtcgcca	gaaatggatg	tgcggaagaa	gaagaagaaa	660
aaaaatcagc	agctgaaaga	accagaggca	gcagggcctg	tggggacaga	gccacagtg	720
gagacactgg	agcctctggg	agtgtgttc	ccgtccacca	ccaagaagag	gaagaagccc	780
aaagggaag	aaaccttcga	gccagaagac	aagacagtga	agcaggaaca	gattaacact	840
gagcctctag	aagacacagt	cctgtccccg	accaaaaaga	gaaagaggca	aaaggggacg	900
gaagggatgg	agccagagga	gggggtgaca	gttgagtctc	agccacaggt	gaagggtggag	960
ccactggagg	aagccatccc	tctgccccct	acgaagaaga	ggaaaaaaga	aaagggacag	1020
atggcaatga	tggagccagg	gacggaggcg	atggagccag	tggagccgga	gatgaagcct	1080
ctggagtccc	caggggggac	catggcgct	caacagccag	aaggagcgaa	gcctcaggcc	1140
caggcagctc	tggcagctcc	caaaaagaag	acgaagaaag	aaaaacagca	agatgccaca	1200
gtggagccag	agacagaggt	ggtggggcct	gagctgccgg	atgaccttga	gcctcaggca	1260
gctcccacat	ccaccaagaa	gaagaagaag	aagaaagaga	gaggtcacac	agtgactgag	1320
ccaattcagc	cactagagcc	tgaactgcca	ggggaggggac	agcctgaagc	cagggcaact	1380
ccgggatcca	ccaagaagag	gaagaagcag	agtcaggaaa	gccggatgcc	agagacagtg	1440
ccccaaagg	agatgccagg	gccgccactg	aattcagagt	ctggggagga	ggctcccaca	1500
ggccgggaca	agaagcggaa	gcagcagcag	cagcagcctg	tgtagtctgc	ccccgggaaa	1560
ctgaggaact	aaagaaagct	gaaggtgccc	acctgggcca	ccagaagggtg	acacccccag	1620
aatccctccc	cagagactgc	accagcgag	ccagcaggag	cctggcctgg	gaggacgatt	1680
tattattaca	ctgggggttt	ccttggcagc	tgggtcatc	aggggtacttt	caagaagggc	1740
tcgtgcagga	catcaaacag	cctccggggc	tggatgggag	ggagaaaaaa	atgaggaacc	1800
gtcatataa	ggagctgttt	cctgggtaaa	aaaaaaaaa	a		

Homo sapiens Apo-2 ligand mRNA, complete cds.

```

tttcctcact gactataaaa gaatagagaa ggaagggctt cagtgaccgg ctgcctggct      60
gacttacagc agtcagactc tgacaggatc atggctatga tggaggtcca ggggggaccc      120
agcctgggac agacctgcgt gctgatcgtg atcttcacag tgctcctgca gtctctctgt      180
gtggctgtaa cttacgtgta ctttaccac gagctgaagc agatgcagga caagtactcc      240
aaaagtggca ttgcttggtt cttaaagaa gatgacagtt attgggaccc caatgacgaa      300
gagagtatga acagccctg ctggcaagtc aagtggcaac tccgtcagct cgttagaaag      360
atgattttga gaacctctga ggaaaccatt tctacagttc aagaaaagca acaaatatt      420
tctcccctag tgagagaaa aggtcctcag agagtagcag ctcacataac tgggaccaga      480
ggaagaagca acacattgtc ttctccaaac tccaagaatg aaaaggctct gggccgcaaa      540
ataaactcct gggaatcatc aaggagtggg cattcattcc tgagcaactt gcacttgagg      600
aatggtgaac tggatcatcca tgaaaaaggg ttttactaca tctattcca aacatacttt      660
cgatttcagg aggaaataaa agaaaacaca aagaacgaca acaaatggt ccaatatatt      720
tacaaataca caagttatcc tgacctata ttgttgatga aaagtgctag aaatagtgt      780
tggctctaaag atgcagaata tggactctat tccatctatc aagggggaat atttgagctt      840
aaggaatatg acagaatttt tgtttctgta acaaatgagc acttgataga catggaccat      900
gaagccagtt ttttcggggc ctttttagtt ggctaactga cctggaaaga aaaagcaata      960
acctcaaagt gactattcag ttttcaggat gatacactat gaagatgttt caaaaaatct     1020
gaccaaaaca aacaaacaga aa

```

## Homo sapiens mRNA for annexin A13 (ANXA13 gene), isoform b

```

gtaaactttg cctgtaggag gactgatctc ttaatgaaat acagaaaaac catctcagaa      60
aaaggaaaat gggcaatcgt catagccagt cgtacaccct ctcagaaggc agtcaacagt      120
tgcctaaagg ggactcccaa ccctcgacag tctgcagcc cctcagccac ccatcacgga      180
atggagagcc agaggcccca cagcctgcta aagcgagcag tcctcagggt tttgatgtgg      240
atcgagatgc caaaaagctg aacaaagcct gcaaaggaat ggggaccaat gaagcagcca      300
tcattgaaat cttatcgggc aggacatcag atgagaggca acaaatacag caaaagtaca      360
aggcaacgta cggcaaggag ctggaggaag tactcaagag tgagctgagt ggaaacttcg      420
agaagacagc gttggccctt ctggaccgtc ccagcgagta cgccgcccgg cagctgcaga      480
aggctatgaa gggctctggc acagatgagt ccgtcctcat tgaggtcctg tgcacgagga      540
ccaataagga aatcatcgcc attaaagagg cctaccaaag gctatttgat aggagcctcg      600
aatcagatgt caaagtgat acaagtggaa acctaaaaaa aatcctggtg tctctgctgc      660
aggctaactg caatgaagga gatgacgtgg acaagatct agctggtcag gatgccaaag      720
atctgtatga tgcaggggaa ggccgctggg gcactgatga gcttgcggtc aatgaagtcc      780
tggccaagag gagctacaag cagttacgag ccacctttca agcctatcaa attctcattg      840
gcaaagacat agaagaagcc attgaagaag aaacatcagg cgacttgacg aaggcctatt      900
taactctcgt gagatgtgcc caggattgtg aggactatct tgctgaacgt ctgtacaagt      960
cgatgaaggg tgcggggacc gatgaggaga cgttgattcg catagtcgtg accaggggcg      1020
aggtggacct tcaggggatc aaagcaaagt tccaagagaa gtatcagaag tctctctctg      1080
acatggttcg ctcagatacc tccggggact tccggaaact gctagtagcc ctcttgcaact      1140
gagccaagcc agggcaatag gaacacaggg tggaaaccacc tttgtcaaga gcacattcca      1200
aatcaaaactt gcaaatgaga ctcccgcacg aaaaccctta agagtcccgg attactttct      1260
tggcagctta agtggcgag ccaggccaag ctgtgtaagt taagggcagt aacgtaaga      1320
tgcgtgggca gggcaccttg aactctggct tagcaagcat ctaggctgcc tcttcacttt      1380
cttttagcat ggtaactgga tgttttctaa acactaatga aatcagcagt tgatgaaaaa      1440
actatgcatt tgtaatggca catttagaag gatatgcac acacaagtaa ggtacaggaa      1500
agacaaaatt aaacaattta ttaattttcc ttctgtgtgt tcaatttgaa agcctcattg      1560
ttaaattaaag ttgtggatta tgcctcta

```

Homo sapiens serine protease inhibitor, Kazal type 1, mRNA (cDNA clone

```
cgcagaactt cagccatgaa ggtaacaggc atctttcttc tcagtgcctt ggccctgttg      60
agtctatctg gtaacactgg agctgactcc ctgggaagag aggccaaatg ttacaatgaa      120
cttaatggat gcaccaagat atatgaccct gtctgtggga ctgatggaaa tacttatccc      180
aatgaatgcg tgttatgttt tgaaaatcgg aaacgccaga cttctatcct cattcaaaaa      240
tctgggcctt gctgagaacc aaggttttga aatcccatca ggtcaccgcg aggctgact      300
ggccttattg ttgaataaat gtatctgaat atcaaaaaaa aaaaaaaaaa aaaaaaaaaa      360
aa
```

## Homo sapiens B cell linker protein BLNK mRNA, alternatively spliced

ccttcgtggc	cgcagcctgc	actctcagaa	atcagacttg	agtggccgga	acccttgaga	60
ccagaggctt	accatgctgc	tccctaggag	ggccaggaac	tgctgacgtg	accactggac	120
agttattcgt	gtctcttaca	attaccaaac	agaatggaca	agcttaataa	aataaccgtc	180
cccgccagtc	agaagttgag	gcagcttcaa	aagatggtcc	atgatattaa	aaacaatgaa	240
ggtggaataa	tgaataaaaat	caaaaagcta	aaagtcaaag	cacctccaag	tgcttcctga	300
agggactacg	cttcagagag	ccccgctgac	gaagaggagc	agtggtcoga	tgactttgac	360
agcgactatg	aaaatccaga	tgagcactcg	gactcagaga	tgtacgtgat	gcccgcogag	420
gagaacgctg	atgacagcta	cgagccgcct	ccagtagagc	aggaaaaccag	gccggttcac	480
ccagccctgc	ccttcgccag	aggcgagtat	atagacaatc	gatcaagcca	gaggcattcc	540
ccacccttca	gcaagacact	tcccagtaag	cccagctggc	cttcagagaa	agcaaggctc	600
acctccaccc	tgccggccct	gactgctttg	cagaaacctc	aagtcccacc	caaaccocaaa	660
ggcctccttg	aggatgaggc	tgattatgtg	gtccccgtgg	aagataatga	tgaaaactat	720
attcatccca	cagaaagcag	ttcacctcca	cctgaaaaag	ctcccatggt	gaatagatca	780
accaagccaa	attcctcaac	gcccgcctct	cctccaggaa	cagcttcagg	tcgaaacagt	840
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aaaaaaccaa	cgacaccact	gaagacaact	ccagttgcct	ctcaacagaa	tgcttcaagt	960
gtttgtgaag	aaaaacctat	acctgctgaa	cgccaccgag	ggtcaagtca	cagacaagaa	1020
gctgtgcagt	caccagtgtt	tcctcctgcc	cagaaacaaa	tccaccacaaa	accatcacct	1080
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gcctgtgatc	gaaagtctgc	tgaagaggca	ttgcacagat	caaacaagga	tgatcatttt	1260
cttattcgga	aaagctctgg	ccatgattcc	aaacaaccat	atacactagt	tgtattcttt	1320
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ggttgagtta	tcatgctact	aatattttcc	aaataaatat	ttttattttt	aaaaaaaaaa	1800
aaaaaa						

Homo sapiens cDNA FLJ12768 fis, clone NT2RP2001576, weakly similar to  
HYPOTHETICAL 62.2 KD PROTEIN C4G8.12C IN CHROMOSOME I

agtctccgcg	ctgctgaggg	gcgcccggcc	gctcccacgg	cctccccctcc	gccctgcggt	60
cccgccgcct	cgggggcctc	ctgggaccct	ggccctcgcc	gggcaggacg	ccgccagcgc	120
tgaaggcgca	gcccggaggg	cgcgcgatg	cagatctgtg	gatccagcgt	agcatctgta	180
gcagctggga	catcattcca	ggttttgggc	ccggtgtgtt	ggcaacaact	ggatctgaag	240
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ccgcagacgg	gctatgtgca	cccagatgag	ttcttccagt	cccctgaggt	gatggcagag	360
gacatcctgg	gogttcaggg	cgcgcgggcc	tgggagtttt	accccagcag	ctcctgccgc	420
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gatccaccag	ccctgtcctc	cttgtctgag	ggggcttgga	gggaccacct	cagtcttcac	1860
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gccatagaag	atgccgcccc	accttctact	tgggtagctg	ggctgggacg	ctgggacagg	1980
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gatgtcaagg	tcccaaaaga	ccagggttaag	tgacgacacc	tgtctgttcc	tgcctgtttg	2160
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tggttattat	gcaaacaagt	aatgtttgaa	atatataata	gcactgg		



Homo sapiens glycine amidinotransferase (L-arginine:glycine  
amidinotransferase), mRNA (cDNA clone MGC:1744 IMAGE:3010128), complete

```

cggggaaggct tggaccgacg cggcccagag gccaggaaca ttccgcgcgt ggaccagccg      60
ggccaggggcg atgctgcggg tgcggtgtct gcgcggcggg agccgcggcg ccgaggcggt      120
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ccgatgtgtg atttttattc taataaaactt ttgtgttcca gaaaaaaaaa aaaaaaaaaa      2340
aa

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Homo sapiens cDNA FLJ10143 fis, clone HEMBA1003281, weakly similar to  
POLIOVIRUS RECEPTOR PRECURSOR.

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acaacaacca	agccagttta	atggtaggaa	tttgtatttt	ttgcctttgt	tcagaatata	1680
tgacattggt	aaat					

Homo sapiens leucine aminopeptidase 3, mRNA (cDNA clone IMAGE:2821948), partial cds

gtctggcgt	gagacgtttc	gggagccgga	gtctctccac	cgcagacatg	acgaagggcc	60
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agtgggcaca	tttagacata	gcaggcgtga	tgaccaacaa	agatgaagtt	ccctatctac	1440
ggaaaggcat	gactgggagg	cccacaagga	ctctcattga	gttcttactt	cgtttcagtc	1500
aagacaatgc	ttagttcaga	tactcaaaaa	tgtcttcact	ctgtcttaaa	ttggacagtt	1560
gaacttaaaa	ggtttttgaa	taaatggatg	aaaatctttt	aacggagaca	aaggatggta	1620
tttaaaaatg	tagaacacaa	tgaaatttgt	atgccttgat	ttttttttca	tttcacacaa	1680
agatttataa	aggtaaagtt	aatatcttac	ttgataagga	tttttaagat	actctataaa	1740
tgattaaaat	ttttagaact	tcctaatac	ttttcagagt	atatgttttt	cattgagaag	1800
caaaattgta	actcagattt	gtgatgctag	gaacatgagc	aaactgaaaa	ttactatgca	1860
cttgtcagaa	acaataaatg	caacttgttg	tgctcaaaaa	aaaaaaaaaa	aaaaaaaaaa	1920
aaaaaaaaaa	aaaaaaaaaa					

Homo sapiens mRNA for protein phosphatase 4 regulatory subunit 2 (PPP4R2 gene)

actgtacaaa	tgctttat	ctattcaata	tttagaagac	agttataaac	aagatgcatt	60
caatagcatg	gtggcagatg	aacatcagga	aggaacatcc	atgagcttcc	atccacggaa	120
cctcaccatg	gatacgcttg	tgatcaaggg	cctgggtctcc	cctcaagaca	cggtcacaga	180
tcagaggcca	caccatccta	gcagtggagc	agtaccagct	gggacagggg	ccttctgtga	240
cacctgctgc	atcaccaggc	tgggtgaacg	gacacaattg	ccagaactca	cagaatagaa	300
gtatcagcac	cgaaacctca	caggaaaaat	ggtaagttct	aagtttctcc	attaatagta	360
actctcagat	taatctctgt	catccatcgc	ttctccaaga	aatgactttt	taggggtgatg	420
tgccaggcgc	catggtggag	ggctgggtgg	agcggttgg	ggaggtgctc	actctgtcgg	480
tcttgctctc	tcgcacgctt	cccccggtc	ccttcgtttc	ccccccccgg	tcgcctgcgt	540
gcgggagtg	gtgcgagggg	gggggagggc	gtcggggggg	tggggggagg	cgttccggtc	600
cccaaaagac	ccgcggaggg	aggcggaggg	tgtgagggac	tccggggaagc	catggacgtc	660
gagaggctcc	aggaggcgct	gaaagatttt	gagaagaggg	ggaaaaagga	agtttgcct	720
gtcctggatc	agtttctttg	tcatgtagcc	aagactggag	aaacaatgat	tcagtgggtc	780
caatttaaag	gctattttat	tttcaaactg	gagaaagtga	tggatgattt	cagaacttca	840
gctcctgagc	caagagggtc	tcccaacct	aatgtcgaat	atattccctt	tgatgaaatg	900
aaggaaagaa	tactgaaaat	tgctactgga	tttaatggta	tcccttttac	tattcagcga	960
ctatgtgaat	tgtaacaga	tccaaggaga	aactatacag	gaacagacaa	atttctcaga	1020
ggagtagaaa	agaacgtgat	ggttggttagc	tgtgtttatc	cttcttcaga	gagaaacaat	1080
tccaatagtt	taaatcgaat	gaatggtgtg	atgtttcctg	gaaatgcacc	aagctatact	1140
gagaggctca	atataaatgg	gcctggggaca	cccaggccac	gtaatcgacc	aaagggttct	1200
ctgtcagccc	ccatgacaac	aaatgggtgg	cctgagagca	cagacagcaa	agaggcaaat	1260
ttgcagcaaa	atgaggagaa	aactcacagt	gactcttcga	catctgaatc	agaagtttcc	1320
tcagtgaagc	ctttgagaaa	taaacatcca	gatgaagatg	ctgtggaagc	tgaggggcat	1380
gaggtaaaaa	gactcaggtt	tgacaaagaa	ggtgaagtca	gagaaacagc	cagtcaaacg	1440
acttccagcg	aaatttcttc	agttatggta	ggagaaacag	aagcatcatc	ttcatctcag	1500
gataaagaca	aagatagccg	ttgtaccccg	cagcactgta	cagaagagga	tgaagaagag	1560
gatgaagagg	aagaagaaga	gtcttttatg	acatcaagag	aaatgatccc	agaaagaaaa	1620
aatcaagaaa	aagaatctga	tgatgcctta	actgtgaatg	aagagacttc	tgaagaaaat	1680
aatcaaatgg	aggaatctga	tgtgtctcaa	gctgagaaag	atttgctaca	ttctgaagggt	1740
agtgaaaacg	aaggccctga	aagtaagtgg	ttcttctgac	tgccgtgaaa	cagaaaaatt	1800
agtaggaacc	aattcccagt	aaaactggaa	agaatctttc	cagaatcatc	ccatggataa	1860
tgatgacgaa	gccacagaag	tcaccgatga	accactggaa	caagactatt	tagaaacatt	1920
tacatgcagt	attttacaca	cagttctggg	tttaaacctg	tataaaactt	ttatgtaaaa	1980
aagtgcacct	ttagtthttac	aagtaaagca	ggttgtaaaa	taaagtactt	tatggataat	2040
tcctgaaag						

## Human mRNA for (2'-5') oligo A synthetase E (1,6 kb RNA)

gaggcagttc	tgttgccact	ctctctcctg	tcaatgatgg	atctcagaaa	taccccagcc	60
aaatctctgg	acaagttcat	tgaagactat	ctcttgccag	acacgtgttt	ccgcatgcaa	120
atcgaccatg	ccattgacat	catctgtggg	ttcctgaagg	aaaggtgctt	ccgaggtagc	180
tcctaccctg	tgtgtgtgtc	caaggtggta	aaggggtggc	cctcaggcaa	gggcaccacc	240
ctcagaggcc	gatctgacgc	tgacctgggt	gtcttcctca	gtcctctcac	cacttttcag	300
gatcagttaa	atcgccgggg	agagttcatc	caggaaatta	ggagacagct	ggaagcctgt	360
caaagagaga	gagcactttc	cgtgaagttt	gaggtccagg	ctccacgctg	gggcaacccc	420
cgtgcgctca	gcttcgtact	gagttcgctc	cagctcgggg	aggggggtga	gttcgatgtg	480
ctgcctgcct	ttgatgccct	gggtcagttg	actggcagct	ataaacctaa	cccccaaate	540
tatgtcaagc	tcacgagga	gtgcaccgac	ctgcagaaag	agggcgagtt	ctccacctgc	600
ttcacagaac	tacagagaga	cttcctgaag	cagcgcccca	ccaagctcaa	gagcctcatc	660
cgctagtca	agcactggta	ccaaaattgt	aagaagaagc	ttgggaagct	gccacctcag	720
tatgccttgg	agctcctgac	ggtctatgct	tgggagcgag	ggagcatgaa	aacacatttc	780
aacacagccc	aaggatttgc	gacggtcttg	gaattagtca	taaactacca	gcaactctgc	840
atctactgga	caaagtatta	tgactttaaa	aaccccatata	ttgaaaagta	cctgagaagg	900
cagctcacga	aacccaggcc	tgtgatcctg	gacccggcgg	accctacagg	aaacttgggt	960
ggtggagacc	caaaggggtg	gaggcagctg	gcacaagagg	ctgaggcctg	gctgaattac	1020
ccatgcttta	agaattggga	tgggtcccca	gtgagctcct	ggattctgct	ggtgagacct	1080
cctgcttcc	ccctgccatt	catccctgcc	cctctccatg	aagcttgaga	catatagctg	1140
gagaccatc	tttccaaaga	acttacctct	tgccaaaggc	catttatatt	catatagtga	1200
caggctgtgc	tccatatttt	acagtcattt	tggtcacaat	cgagggtttc	tggatttttc	1260
acatcccttg	tccagaattc	attcccttaa	gagtaataat	aaataatctc	taacacccaa	1320
aa						

Homo sapiens A-kinase anchoring protein 18 beta mRNA, complete cds.

```
gctcgcagac tgtgctataa actgcaattt ctatttgggg tcttcacgga gaagaacacc      60
aggaaagaca gacaggacca gtgccatggg ccagctttgc tgccttcctt tctcaagaga      120
tgaaggaaaa atcagtgagt tggaaaagctc gtcctctgca gtcctacaaa gatacagcaa      180
ggatataccc agttgggtcaa gtggtgaaaa gaacggaggg gagcccgatg acgctgaact      240
agtaaggctc agtaagaggc tgggtggagaa cgcggtgctc aaggctgtcc agcagtatct      300
ggaggaaaaca cagaataaaa acaagccggg ggaggggagc tctgtgaaaa ccgaagcagc      360
tgatcagaat ggcaatgaca atgagaacaa caggaaatga gcccggaacg caggccccca      420
tgtctctgtg caaagcctcc ctgcttccct ctgctgagtc tag
```

## Homo sapiens peptidyl prolyl isomerase H (cyclophilin H), mRNA (cDNA clone

cttctgcttc	cgggtcggag	ccatggcggt	ggcaaattca	agtcctgtta	accccggtgt	60
gttctttgat	gtcagtattg	gcggtcagga	agttggccgc	atgaagatcg	agctctttgc	120
agacgttggt	cctaagacgg	ccgagaactt	taggcagttc	tgcaccggag	aattcaggaa	180
agatgggggt	ccaataggat	acaaaggaag	caccttccac	agggtcataa	aggatttcat	240
gattcagggg	ggagattttg	ttaatggaga	tggtagtga	gtcgccagta	tttaccgggg	300
gccatttgca	gatgaaaatt	ttaaaacttag	acactcagct	ccaggcctgc	tttccatggc	360
gaacagtggg	ccaagtacaa	atggctgtca	gttctttatc	acctgctcta	agtgcgattg	420
gctggatggg	aagcatgtgg	tgtttggaaa	aatcatcgat	ggacttctag	tgatgagaaa	480
gattgagaat	gttccacacg	gccccaaaca	taagcccaag	ctacctgtgg	tgatctcgca	540
gtgtggggag	atgtagtcca	gacaaagact	gaatcaggcc	ttcccttctt	cttgggtggtg	600
ttcttgagta	agataatctg	gactggcccc	cgctctttgct	tcctgcctg	ctgctgcccc	660
atttgatcaa	gagaccatgg	aagtgtcaga	gattcagaat	ccaagattgt	ctttaagttt	720
tcaactgtaa	ataaagtttt	tttgtatgcg	taaaaaaaaa	aaaaa		

Homo sapiens mRNA; cDNA DKFZp564C0362 (from clone DKFZp564C0362); complete cds

```

gggggaggct gtgatgggtt gacaggtgcg tgacagtggg agctgctctc ggcacaagca      60
tgtacggcaa aggcaagagt aacagcagcg ccgccccgtc cgacagccag gcccgggaga      120
agttagcact ctacgtatat gaatatctgc tccatgtagg agctcagaaa tcagctcaaa      180
catttttatt agagataaga tgggaaaaaa acatcacatt gggggaacca ccaggattct      240
tacattcttg gtggtgtgta ttttgggatc tctactgtgc agctccagag agacgtgaaa      300
catgtgaaca ctcaagtga gcaaaagcct tccatgatta cagtgtgca gcagctccca      360
gtccagtgtc aggaaacatt cccccaggag atggcatgcc agtaggtcct gtaccaccag      420
ggttctttca gccttttatg tcacctcggt accctggagg tccaaggccc ccattgagga      480
tacctaatac ggcacttggg ggtgtcccag gaagtcagcc attactcccc agaggaatgg      540
atccaactcg acaacaagga catccaaata tgggtgggcc aatgcagaga atgactctc      600
caagaggaat ggtgccctta ggaccacaga actatggagg tgcaatgaga cccccactga      660
atgcttttagg tggccctgga atgcctggaa tgaacatggg tccaggtggg ggtagacctt      720
ggccaaaacc aacaaatgcc aattcaatac catactctc agcatctcct gggaattatg      780
taggtcctcc aggaggtgga gggccaccag gaacacccat catgcctagt ccagcagatt      840
caaccaactc tggtgataac atgtatactt taatgaatgc agtacctcct ggacctaa      900
gacctaat tccaatgggc cctgggtcag atggtcccat ggggtgatta ggaggaatgg      960
agtcacatca catgaatggc tctttaggct caggagatat ggacagtatt tccaagaatt      1020
ctcccaataa tatgagcctg agtaatcaac cgggcactcc aagggatgat ggcgaaatgg      1080
ggggaattt cttaaatcct tttcagagtg agagttactc ccctagcatg acaatgagcg      1140
tgtgatccat taccaagtct cctcatgaaa accacagtga gtcagccctt cacagaacta      1200
ctacggaaga aaattattca tcacagtgt cagttaaaca aaggaatctc agtcacacca      1260
gattcaaaaca actgtacgga gtggcatatt agaattgccc taaactgaac tgcaataat      1320
tatgtgtgta tgtatatgtg tgggaaagag aatgtactgt atatgtgtat gtatacaga      1380
catatacaca tacatacatt gaccacagg acattgtaaa atattatcac atgacatctt      1440
aagtagaat aagtagggac ttttattcca tcctttttt cacgtttaca ttttaattat      1500
tacaagttgc tcctgcccc tcctgaaact attttgtgt gtgtatatca ctgctttata      1560
taagttattt ttttaagggtga actcagatgt tatggttttg tatatgtctg caatcatgga      1620
taggaataaa atcgcttatt tgagagcttt caaaaaaaaa aaaaaaaaaa c      1680

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Human interferon-induced cellular resistance mediator protein (MxB) mRNA,  
complete cds.

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aagagatgat ttctccatcc tgaacgtgca gcgagcttgt caggaagatc ggaggtgcca      60
agtagcagag aaagcatccc ccagctctga caggagagaca gcacatgtct aaggcccaca      120
agccttgccc ctaccggagg agaagtcaat tttcttctcg aaaataacctg aaaaaagaaa      180
tgaattcctt ccagcaacag ccaccgccat tcggcacagt gccaccacaa atgatgtttc      240
ctccaaactg gcagggggca gagaaggacg ctgctttcct cgccaaggac ttcaactttc      300
tacttttgaa caatcagcca ccaccaggaa acaggagcca accaagggca atggggcccg      360
agaacaacct gtacagccag tacgagcaga aggtgcgccc ctgcattgac ctcacgact      420
ccctgcgggc tctgggtgtg gagcaggacc tggccctgcc agccatcgcc gtcacgggg      480
accagagctc gggcaagagc tctgtgctgg aggcactgtc aggagtgcg cttccagag      540
gcagcggaat cgtaccagg tgtccgtgtg tgctgaaact gaaaaagcag ccctgtgagg      600
ctggggccgg aaggatcagc taccggaaca ccgagctaga gcttcaggac cctggccagg      660
tggagaaaga gatacaciaa gcccagaacg tcatggccgg gaatggccgg ggcacagcc      720
atgagctcat cagcctggag atcacctccc ctgaggttcc agacctgacc atcattgacc      780
ttcccggcat caccagggtg gctgtggaca accagccccg agacatcgga ctgcagatca      840
aggctctcat caagaagtac atccagaggc agcagacgat caacttggtg gtggttccct      900
gtaacgtgga cattgccacc acggaggcgc tgagcatggc ccatgaggtg gaccggag      960
gggacaggac catcggtatc ctgacaaaac cagatctaata ggacaggggc actgagaaaa      1020
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accaaaactg tcagagcacg attgaagaca taagaagtga acacacagca aaggcagaaa      1800
acatgatcca acttcagttc agaatggagc agatggtttt ttgtcaagat cagatttaca      1860
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taggcatcca cctgaatgcc tacttcttgg aaaccagcaa acgtctcgcc aaccagatcc      2040
catttataat tcagtatttt atgctccgag agaatggtga ctcttgcag aaagccatga      2100
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gggtcccttc agatccagtg gccatgcccc ctgcttccca tgggttactg tcatttgtgt      2820
tcccagctc tccactcccc cgccagaaaag gagcctgagt gattctcttt tcttcttgtt      2880
tccctgatta tgatgagctt ccattgttct gttaagtctt gaagaggaaat ttaataaagc      2940
aaagaaactt tttaaaaacg t

```

## Human Ro/SSA ribonucleoprotein homolog (RoRet) mRNA, complete cds.

gaccacgcg	tccgaaaagc	tatggcctca	accaccagca	ccaagaagat	gatggaggaa	60
gccacctgct	ccatctgcct	gagcctgatg	acgaaccag	taagcatcaa	ctgtggacac	120
agctactgcc	acttgtgtat	aacagacttc	tttaaaaacc	caagccaaa	gcaactgagg	180
caggagacat	tctgctgtcc	ccagtgtcgg	gctccatttc	atatggatag	cctccgaccc	240
aacaagcagc	tgggaagcct	cattgaagcc	ctcaaagaga	cggatcaaga	aatgtcatgt	300
gaggaacacg	gagagcagtt	ccacctgttc	tgcgaagacg	aggggcagct	cactctgtgg	360
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attcagagac	aaaaaatccg	gtctgacttt	aagaatctcc	agtgtttcct	acatgaggaa	600
gagaagtctt	atctctggag	gctggagaaa	gaagaacaac	agactctgag	tagactgagg	660
gactatgagg	ctggtctggg	gctgaagagc	aatgaactca	agagccacat	cctggaactg	720
gaggaanaat	gtcagggctc	agcccagaaa	ttgctgcaga	atgtgaatga	cactttgagc	780
aggagttggg	ctgtgaagct	ggaaacatca	gaggctgtct	ccttggaact	tcatactatg	840
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gtgactctgg	atccagatac	agctcatcac	gaactaattc	tctctgagga	tccgagacaa	960
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ggtttaacca	gcacagagaa	aataatataa	atcccataag	ggcagacgtt	tggctctgtt	1500
tcttcgctgt	catttcctta	gtagttagac	tagtgctgag	attttagtgg	atatataatt	1560
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tgcattatc	cgccaactgc	atttaaaaca	aaacaaaaca	gaaaaatcaa	aataacattg	1860
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gattcagttc	tggaaaagaa	tttgggtatt	tcagtcctgc	taggaccaat	taccttgaaa	2100
tattttaaaa	tctcagtaaa	tagttattgc	tgaatggct	gttggcagtt	cttattatga	2160
ttcagagaag	agcaaataga	ccttaacttc	attttgaaaa	agaccaaatt	accatacccg	2220
agtgaagta	gacaggacta	caactaaaac	ataaacaaca	ttaatgatga	ccataaaaag	2280
tcacaaaatt	gctaaatggt	ataattttag	gttgacataa	aaattgatgg	ccaggcatgg	2340
tggctcacgc	ctgtaatccc	agaactatgt	gaggctgagg	cagggtggatc	acttgaggtc	2400
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aattgcttga	gcctgcagca	gctgcagtaa	gccaagatca	tgctgtgcct	caaggaaaaa	2580
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agggagatat	aaaagagttc	aaactattgc	ccatgttccc	cagggtcaga	agttctaat	2760
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gcataagaag	tattttgagt	tgaagacaat	tgagaaaaaa	aaaaaaaaaa	aa	2872

Homo sapiens cDNA FLJ10465 fis, clone NT2RP1001616.

actctgctgc	cggtctctcg	gagcggcgct	gggcgaccag	agcagggctcg	agatgtccta	60
catcccgggc	cagccgggtca	ccgccgtggt	gcaaagagtt	gaaattcaca	agctgctca	120
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gaatcccttc	tctgaagaca	agacggacca	ggtgaggggg	tctgggggtcc	tgggaccgct	240
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catcagcagg	gccgggtgcat	ggtgggtgcag	caactctgcc	ccggctctct	cagaacagtc	480
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gtattttttt	aatcacaagt	ttgatacaaa	atgtttttat	cgt		1843

Homo sapiens histone 2, H2aa, mRNA (cDNA clone MGC:2238 IMAGE:3536984),  
complete cds.

```
ccaggcagga gtttctctcg gtgactacta tcgctgtcat gtctggtcgt ggcaagcaag      60
gaggcaaggc ccgcgccaag gccaagtcgc gctcgteccg cgtggcctt cagttcccgg      120
tagggcgagt gcatcgcttg ctgcgcaaag gcaactacgc ggagcgagtg ggggcccggc      180
cgcccgctta catggctgcg gtccctcgagt atctgaccgc cgagatcctg gagctggcgg      240
gcaaogcggc tcgggacaac aagaagacgc gcatcatccc tcgtcacctc cagctggcca      300
tccgcaacga cgaggaactg aacaagctgc tgggcaaagt caccatcgcc cagggcggcg      360
tcttgctaa catccaggcc gtactgctcc ctaagaagac ggagagtcac cacaaggcaa      420
agggcaagtg aggctgacgt ccggcccaag tgggcccagc ccggcccgcg tctcgaaggg      480
gcacctgtga actcaaaagg ctcttttcag agccaccacac gttttcaaat aaaagagttg      540
ttaatgctga aaaaaaaaaa aaaaaaa
```

## Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

attaaacctc	tcgccgagcc	cctccgcaga	ctctgcgcgc	gaaagtttca	tttgctgtat	60
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acagtggtta	gaaaagcaag	actgggagca	cgctgccaat	gatgtttcat	ttgccaccat	360
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Homo sapiens mRNA; cDNA DKFZp564K2478 (from clone DKFZp564K2478); complete

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aaaaaaaaaa	aaaaa					1874

Homo sapiens cDNA FLJ20073 fis, clone COL02320.

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Homo sapiens cDNA FLJ10913 fis, clone OVARC1000209, weakly similar to Oryza sativa submergence induced protein 2A mRNA.

gagcgcggcc	cctgggttcg	aacacggcac	cgcactgcg	cgcatggtg	ctggcctggt	60
atatggacga	cgccccgggc	gacccgcggc	aacccaccg	ccccgaccc	ggccgcccag	120
tgggcctgga	gcagctgcgg	cggctcgggg	tgctctactg	gaagctggat	gctgacaaat	180
atgagaatga	tccagaatta	gaaaagatcc	gaagagagag	gaactactcc	tggatggaca	240
tcataacccat	atgcaaagat	aaactaccaa	attatgaaga	aaagattaag	atgttctacg	300
aggagcattt	gcacttggac	gatgagatcc	gctacatcct	ggatggcagt	gggtacttcg	360
acgtgagggg	caaggaggac	cagtggatcc	ggatcttcat	ggagaaggga	gacatggtga	420
cgtccccgc	ggggatctat	caccgcttca	cgggtggacga	gaagaactac	acgaaggcca	480
tgcggctgtt	tgtgggagaa	cgggtgtgga	cagcgtacaa	cgggcccgt	gaccattttg	540
aagccgcg	gcagtagctg	aaatttctgg	cacagaccgc	ctagcagtgc	tgccctgggaa	600
ctaacaacgtg	cctcgtaaag	gtccccaatg	taatgactga	gcagaaaatc	aatcactttc	660
tctttgcttt	tagaggatag	ccttgaggct	agattatctt	tcctttgtaa	gattatttga	720
tcagaatatt	ttgtaatgaa	aggatctaga	aagcaacttg	gaagtgtaaa	gagtcacctt	780
cattttctgt	aaactcaatca	agactggtgg	gtccatggcc	ctgtgttagt	tcatgcattc	840
agttgagtcc	caaatgaaag	tttcatctcc	cgaaatgcag	ttccttagat	gcccactctg	900
acgtgatgcc	gcgcctgccg	tgtaagaagg	tgcaatccta	gataacacag	ctagccagat	960
agaagacact	tttttctcca	aaatgatgcc	ttgggggtgg	gagtggtagt	gggaagagct	1020
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ctgccttaat	cttatactca	tggtctggag	ttaccttata	ttcaggtata	tgtgatattt	1140
tgccctggtt	gttaaaattg	ccccatttag	attccttcta	taattgttct	tatagataag	1200
taatttatat	atgagctgtg	ttagtatttt	tttcagtgtg	agatctcttg	attctttcac	1260
aataaagctg	ttgaatttta	acaggagtat	tagtacataa	attttctact	caacaattcc	1320
gagataggat	tatgcctagt	ttgtcatatc	acagaaaaac	tccaagttaa	cttcattgtt	1380
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taggattaat	tttcttaatc	acctccacac	tgtacagagg	aaactcaagc	cttaaatgtt	1500
taagtaaaact	ctgtctcagt	tttaggatta	aaatacccac	cgggtggtgtg	atgatgccat	1560
ataccgcagg	gcttgcttct	gtcaagtgtg	actctatctc	agtaattaaa	ataagtgtctg	1620
atctactg						1628

Homo sapiens interferon induced transmembrane protein 1 (9-27), mRNA (cDNA clone MGC:5195 IMAGE:3464598), complete cds.

```

aaacgacagg ggaaaggagg tctcactgag caccgtccca gcatccggac accacagcgg      60
cccttcgctc cacgcagaaa accacacttc tcaaaccttc actcaacact tccttcccca      120
aagccagaag atgcacaagg aggaacatga ggtggctgtg ctggggggcac cccccagcac      180
catccttcca aggtccaccg tgatcaacat ccacagcgag acctccgtgc ccgaccatgt      240
cgtctggtec ctgttcaaca ccctcttctt gaactggtgc tgtctgggct tcatagcatt      300
cgcctactcc gtgaagtcta gggacaggaa gatggttggc gacgtgaccg gggcccaggc      360
ctatgcctcc accgccaagt gcctgaacat ctgggccctg attctgggca tcctcatgac      420
cattggattc atcctgttac tggatttcgg ctctgtgaca gtctaccata ttatgttaca      480
gataatacag gaaaaacggg gttactagta gccgccata gcctgcaacc tttgactcc      540
actgtgcaat gctggccctg cacgctgggg ctgttgcccc tggcccttg gtctgcccc      600
tagatacagc agtttatacc cacacacctg tctacagtgt cattcaataa agtgcacgtg      660
cttgtagaaa aaaaaaaaaa aaa                                     683

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Homo sapiens cDNA: FLJ22242 fis, clone HRC02528.

aacttttaaa	aactctcatt	ggagtaagtc	ttttcaagat	gatcctccac	aatggaggca	60
gcgttcctac	ttgtcatcac	acagctgaag	acattgtttc	ttaggtgtga	aatcggggac	120
aaaggacaaa	cagagacaca	cggcattgtt	catgggaggc	atcgtcacc	tcctgggtgt	180
tctgtgggaa	tttctgtgt	gaggaaaacg	tggccacagg	gttgtgtgt	acccaccctt	240
ccccggcgag	atggccctcg	gcctgtgccc	ctgcttccac	cctcgccact	ccatggcagc	300
ttttggtctg	tttcggctc	tgcctctctg	cctgaactct	catccggctt	gtacctgctt	360
gctggacccc	tcacacctga	ggccagccca	tgtctcagge	ccagccctag	cctcttctcc	420
tcaaattcta	agtgttttct	cttttaggtt	ccctggcttt	gtgaatggat	catgtgtctc	480
taggtataaa	cctgacatca	tctttccacc	cggcttacct	ccaccagatc	tccccagttc	540
tgtctccatc	ttctgcctgc	agctgctctg	ttctcatggt	caactgtgca	tcaactgagtc	600
tggacccttg	ttatcatttt	caaaactggc	tccttccctc	gttccocact	tcttaaagtc	660
acctgtccat	tgccaccaga	ttaagctttc	tcacgccaga	tcacctctct	ctgagaaacc	720
tccattgaca	tggaaacacc	attgtctggc	acacatactc	acatacccac	cttcccgtct	780
tgatccccac	acatctttcc	agcctcccct	cccactccac	tccttgcctc	ctcctccacc	840
tccccatcct	cttgtctccc	ctcccctctg	aatccagccc	agcggggctt	ctcctgcctc	900
catcacatca	cagaagtacc	tcctgcttct	ggttttaatt	agagccttcc	ccgattacat	960
tttctctga	atTTTTTcct	atctacattt	gatctgtcat	gtttaaaccc	cctacttcta	1020
agggaaactc	tctaattctt	tatcctcatc	cccaaatagt	gttttcttcc	tctgggttct	1080
tataatgttg	gtatcaatct	cacagcattt	agtgttctct	gcctgggtgtg	acagttacct	1140
gtgtgcatgt	gcaatttcta	atttcccacg	ctagactgtg	agcttcctaa	ggcaagaatc	1200
atgcctcggt	ggtttctgta	ttcctcatgg	tgccaaacac	agtgccttct	acattgcagg	1260
cgctgaataa	acatttttaa	agcaaaaaaa	aaaaaaaaaa			1300

ta77f02.x2 NCI\_CGAP\_HSC2 Homo sapiens cDNA clone IMAGE:2050107 3' similar  
to gb:L19779 HISTONE H2A.1 (HUMAN);, mRNA sequence.

```
tatacggctg cgagaagacg acagaagggg cacctgtgaa ctcaaaaggc tcttttcaga      60
gccacccacg ttttcaata aaagagttgt taatgctggc cactcccaaa aaaaaaaaaa      120
aaaaaaaaa agtcgtatcg a                                     141
```

## H.sapiens centromere autoantigen C (CENPC) mRNA, complete cds.

cggtatcgag	ctctcgggc	agtcgcctga	gacttaaggt	tattgcttgg	ccgcggcctg	60
gtattccggc	gattcgttcc	ttgctcggct	tcctggagct	gtggtcctgt	tgggcttcca	120
cctcagacag	ttgcgctggc	tcagcggggc	cggaacatgg	ctgcgtccgg	tctggatcat	180
ctcaaaaatg	gctacagaag	aagattttgt	cgaccttcca	gggcacgtga	cattaacaca	240
gagcaaggcc	agaatgttct	ggaaatctta	caagactggt	ttgaagaaaa	aagtcttgcc	300
aatgatttta	gtacaaatcc	tacaaaatca	gtgcctaatt	caacacgcaa	aataaaagac	360
acttgatttc	agtcaccaag	caaagagtgc	cagaaatcac	atccaaagtc	agttccagtt	420
tcttcaaaga	agaaagaagc	ctctctacag	tttggtgtag	aaccaagtga	agccacaaac	480
agatcagttc	aggcccatga	agttcatcag	aaaattctgg	caactgatgt	tagttccaaa	540
aatacacctg	actcgaaaaa	aatatcaagt	agaaacataa	atgatcatca	cagtgaagct	600
gtatcagaat	tttacttatc	cgttggctca	ccttctgttc	ttttggatgc	aaaaacatct	660
gtatcacaata	atgttattcc	atctagtggc	aaaaagagag	agacttacac	ttttgaaaat	720
tcagtaaata	tgctgccttc	aagtacagag	gtttcagtta	aaacccaaaa	aagggttaaac	780
tttgatgata	aagttatggt	aaagaaaata	gaaatagata	ataaagtatc	agatgaagag	840
gataaaacat	cggaaggaca	agaaagaaaa	ccatcaggat	catctcagaa	tagaatacga	900
gattcagaat	atgaaattca	acgacaagct	aaaaaaagtt	tttcaacatt	gttttagaaa	960
acagtaaana	gaaaaagtga	atccagtcct	attgtagggc	atgcggcaac	tgctccacct	1020
cattcgtgtc	ctcccgatga	tacgaagttg	atagaggatg	aattttataat	tgatgagtcg	1080
gatcaaagtt	ttgccagtag	atcttggatt	acaataccaa	gaaaggcagg	gtctctgaaa	1140
caacgcacaa	tatccccggc	tgagagcact	gcactctttc	aaggtagaaa	gtcaagagaa	1200
aagcatcata	atatattacc	taagactttg	gcaaatgaca	aacattccca	taaacctcac	1260
ccagtagaga	catctcagcc	ctctgataaa	acagtactgg	atacaagtta	tgctttgata	1320
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gaattaccaa	tgcatcacia	tagtagccga	aaatctacta	agaaaacaaa	tcagtcacat	1860
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aaaaatcttg	attgttctag	atctacaaga	agctcaaaga	atgaagataa	cattatgact	2100
gcacagaatg	ttccccataa	gcctcagacc	agtggatata	catgtaatat	accaacagag	2160
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aaagtcaaca	aaaaatctaa	taagaaaagg	atctgtcttg	ataacgatga	aagaaagact	2580
aacttaatgg	taaatctagg	tatacctctt	ggagatcctt	tgacagccaac	gagggtaaag	2640
gaccagaaa	caagagagat	tattctcatg	gatcttgtaa	ggccacaaga	tacatatcaa	2700
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ccttaaatat	atgtatgtat	atatgtatat	gtaaaaacag	tttgtatagt	tggatatatt	3060
gtctttgtaa	ttacttgtga	tgttttaaaa	taaaaatttt	attcagtttt	gtgtaaaaaa	3120
aaaaaaaaa	aa					3132

## Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

attaaacctc	tcgccgagcc	cctccgcaga	ctctgcgccg	gaaagtttca	tttgctgtat	60
gccatcctcg	agagctgtct	aggttaacgt	tcgcactctg	tgtatataac	ctcgacagtc	120
ttggcaccta	acgtgctgtg	cgtagctgct	cctttggttg	aatccccagg	cccttggttg	180
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ccgttttcat	gacctcctgt	cacagctgga	tgatcaatat	agtcgctttt	ctttggagaa	420
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ggtggagata	aagatttct	gagttt	ttaaaatta	agctaaag	tctgtattg	3840
attaaatata	atatcgac	agtgtt	gtggcact	atacaat	aggcctc	3900
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ctaaaaaaca	aagaagaca	cattaaaa	aatattg	cta		4003



## Homo sapiens ornithine decarboxylase (ODC1) mRNA, complete cds.

gaattcctgg	agagttgcct	ttgtgagaag	ctggaaatat	ttctttcaat	tccatctctt	60
agttttccat	aggaacatca	agaaatcatg	aacaactttg	gtaatgaaga	gtttgactgc	120
cacttcctcg	atgaaggttt	tactgccaa	gacattctgg	accagaaaat	taatgaagtt	180
tcttcttctg	atgataagga	tgccttctat	gtggcagacc	tgggagacat	tctaaagaaa	240
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aagactgaaa	tacagttggg	gcagagctcg	ggggtgcctc	cagagaggat	tatctatgca	420
aatccttgta	aacaagtatc	tcaaattaag	tatgctgcta	ataatggagt	ccagatgatg	480
acttttgata	gtgaagttga	gttgatgaaa	gttgccagag	cacatcccaa	agcaaagttg	540
gttttgcgga	ttgccactga	tgattccaaa	gcagtctgtc	gtctcagtg	gaaattcggt	600
gccacgctca	gaaccagcag	gctccttttg	gaacgggcga	aagagctaaa	tatcgatggt	660
gttgggtgtc	gcttccatgt	aggaagcggc	tgtaccgata	ctgagacctt	cgtgcaggca	720
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cttgatattg	gcggtggctt	tcttgatctt	gaggatgtga	aacttaaatt	tgaagagatc	840
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atagctgagc	cggcagata	ctatgttgca	tcagctttca	cgcttgagct	taatatcatt	960
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tcacccagca	tatggggacc	aacatgtgat	ggcctcgatc	ggattgttga	gcgctgtgac	1200
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gctgctgcct	ctacgttcaa	tggcttccag	aggccgacga	tctactatgt	gatgtcaggg	1320
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aatgtctttg	taagagtagg	gtcgccatga	tcagccata	tggagacta	gcatatgggt	1620
cacacttata	tgtgttccca	tggaaactat	ttgaatattt	gttttatatg	gattttttatt	1680
cactcttcag	acacgtact	caagagtgc	cctcagctgc	tgaacaagca	ttttagctt	1740
gtacaatggc	agaatgggac	aaaagcttag	tgtgtgacc	tgtttttaaa	ataaagtatc	1800
ttgaaataat	taggc					1815

Homo sapiens hephaestin (HEPH) mRNA, complete cds.

cctgtttccc	agagtaatgt	gggccatgga	gtcaggccac	ctcctctggg	ctctgctgtt	60
catgcagtcc	ttgtggcctc	aactgactga	tggagccact	cgagtctact	acctgggcat	120
ccgggatgtg	cagtggaaact	atgctcccaa	gggaagaaat	gtcatcacga	accagcctct	180
ggacagtga	atagtggctt	ccagcttctt	aaagtctgac	aagaaccgga	tagggggaaac	240
ctacaagaag	accatctata	aagaatacaa	ggatgactca	tacacagatg	aagtggccca	300
gcctgcctgg	ttgggcttcc	tggggccagt	gttgccaggct	gaagtggggg	atgtcattct	360
tattcacctg	aagaattttg	ccactcgtcc	ctataccatc	caccctcatg	gtgtcttcta	420
cgagaaggac	tctgaagggt	ccctataccc	agatggctcc	tctggggccac	tgaagctga	480
tgactctgtt	cccccgggg	gcagccatat	ctacaactgg	accattccag	aaggccatgc	540
accaccgat	gctgacccag	cgtgcctcac	ctggatctac	cattctcatg	tagatgctcc	600
acgagacatt	gcaactggcc	taattgggac	tctcatcacc	tgtaaaagag	gagccctgga	660
tgggaactcc	cctcctcaac	gccaggatgt	agaccatgat	ttcttctctc	tcttcagtgt	720
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tgcttcagtg	gacaaagaag	atgagacatt	tcaggagagc	aataggatgc	atgcaatcaa	840
tggctttgtt	tttgggaatt	tacctgagct	gaacatgtgt	gcacagaaac	gtgtggcctg	900
gcacttggtt	ggcatgggca	atgaaattga	tgtccacaca	gcatttttcc	atggacagat	960
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ccatgctggc	atggagaccc	tcttactgt	tttttctcga	acagaacact	taagccctct	3240
caccgtcatc	accaaagaga	ctgaaaaagc	agtgccccc	agagacattg	aagaaggcaa	3300

tgtgaagatg	ctgggcatgc	agatcccat	aaagaatgtt	gagatgctgg	cctctgtttt	3360
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cttggcagtg	aactactttg	aagaagtggg	caatgggttg	ttgctgccat	gagcatgtac	4080
aacctctgga	gctagaagct	cctcaggaaa	gccagttctc	caagttctta	acctgtggca	4140
ctgaaaggaa	tggtgagtta	cctcttcatg	ttttagacag	caaaccctat	ccattaaagt	4200
acttgtaga	acact					4215

## Human 18S rRNA gene, complete.

c c g t c c g t c c	g t c g t c c t c c	t c g c t t g c g g	g g c g c c g g g c	c c g t c c t c g a	g c c c c c n n n n	60
n c c g t c c g g c	c g c g t c g g g g	c c t c g c g c g c	c t c t a c c t a c	c t a c c t g g t t	g a t c c t g c c a	120
g t a g c a t a t g	c t t g t c t c a a	a g a t t a a g c c	a t g c a t g t c t	a a g t a c g c a c	g g c c g g t a c a	180
g t g a a a c t g c	g a a t g g c t c a	t t a a a t c a g t	t a t g g t t c c t	t t g g t c g c t c	g c t c c t c t c c	240
t a c t t g g a t a	a c t g t g g t a a	t t c t a g a g c t	a a t a c a t g c c	g a c g g g c g c t	g a c c c c c t t c	300
g c g g g g g g g a	t g c g t g c a t t	t a t c a g a t c a	a a a c c a a c c c	g g t c a g c c c c	t c t c c g g c c c	360
c g g c c g g g g g	g c g g g c c g c g	g c g g c t t t g g	t g a c t c t a g a	t a a c c t c g g g	c c g a t c g c a c	420
g c c c c c c g t g	g c g g c g a c g a	c c c a t t c g a a	c g t c t g c c c t	a t c a a c t t t c	g a t g g t a g t c	480
g c c g t g c c t a	c c a t g g t g a c	c a c g g g t g a c	g g g g a a t c a g	g g t t c g a t t c	c g g a g a g g g a	540
g c c t g a g a a a	c g g c t a c c a c	a t c c a a g g a a	g g c a g c a g g c	g c g c a a a t t a	c c c a c t c c c g	600
a c c c g g g g a g	g t a g t g a c g a	a a a a t a a c a a	t a c a g g a c t c	t t t c g a g g c c	c t g t a a t t g g	660
a a t g a g t c c a	c t t t a a a t c c	t t t a a c g a g g	a t c c a t t g g a	g g g c a a g t c t	g g t g c c a g c a	720
g c c g c g g t a a	t t c c a g c t c c	a a t a g c g t a t	a t t a a a g t t g	c t g c a g t t a a	a a a g c t c g t a	780
g t t g g a t c t t	g g g a g c g g g c	g g g c g g t c c g	c c g c g a g g c g	a g c c a c c g c c	c g t c c c c g c c	840
c c t t g c c t c t	c g g c g c c c c c	t c g a t g c t c t	t a g c t g a g t g	t c c c g c g g g g	c c c g a a g c g t	900
t t a c t t t g a a	a a a a t t a g a g	t g t t c a a a g c	a g g c c c g a g c	c g c c t g g a t a	c c g c a g c t a g	960
g a a t a a t g g a	a t a g g a c c g c	g g t t c t a t t t	t g t g g t t t t	c g g a a c t g a g	g c c a t g a t t a	1020
a g a g g g a c g g	c c g g g g g c a t	t c g t a t t g c g	c c g c t a g a g g	t g a a a t t c t t	g g a c c g g c g c	1080
a a g a c g g a c c	a g a g c g a a a g	c a t t t g c c a a	g a a t g t t t t c	a t t a a t c a a g	a a c g a a a g t c	1140
g g a g g t t c g a	a g a c g a t c a g	a t a c c g t c g t	a g t t c c g a c c	a t a a a c g a t g	c c g a c c g g c g	1200
a t g c g g c g g c	g t t a t t c c c a	t g a c c c g c c g	g g c a g c t t c c	g g g a a a c c a a	a g t c t t t g g g	1260
t t c c g g g g g g	a g t a t g g t t g	c a a a g c t g a a	a c t t a a a g g a	a t t g a c g g a a	g g g c a c c a c c	1320
a g g a g t g g a g	c c t g c g g c t t	a a t t t g a c t c	a a c a c g g g a a	a c c t c a c c c g	g c c c g g a c a c	1380
g g a c a g g a t t	g a c a g a t t g a	t a g c t c t t t c	t c g a t t c c g t	g g g t g g t g g t	g c a t g g c c g t	1440
t c t t a g t t g g	t g g a g c g a t t	t g t c t g g t t a	a t t c c g a t a a	c g a a c g a g a c	t c t g g c a t g c	1500
t a a c t a g t t a	c g c g a c c c c c	g a g c g g t c g g	c g t c c c c c a a	c t t c t t a g a g	g g a c a a g t g g	1560
c g t t c a g c c a	c c c g a g a t t g	a g c a a t a a c a	g g t c t g t g a t	g c c c t t a g a t	g t c c g g g g c t	1620
g c a c g c g c g c	t a c a c t g a c t	g g c t c a g c g t	g t g c c t a c c c	t a c g c c g g c a	g g c g c g g g t a	1680
a c c c g t t g a a	c c c c a t t c g t	g a t g g g g a t c	g g g g a t t g c a	a t t a t t c c c c	a t g a a c g a g g	1740
a a t t c c c a g t	a a g t g c g g g t	c a t a a g c t t g	c g t t g a t t a a	g t c c c t g c c c	t t t g t a c a c a	1800
c c g c c c g t c g	c t a c t a c c g a	t t g g a t g g t t	t a g t g a g g c c	c t c g g a t c g g	c c c c g c c g g g	1860
g t c g g c c c a c	g g c c t g g c g g	a g c g c t g a g a	a g a c g g t c g a	a c t t g a c t a t	c t a g a g g a a g	1920
t a a a a g t c g t	a a c a a g g t t t	c c g t a g g t g a	a c c t g c g g a a	g g a t c a t t a		1969

## Homo sapiens cell death regulator aven mRNA, complete cds.

gggcgtctcc	gcagctcggc	tcccgcgcgc	tcagcaccac	cagcggcgcc	agatgcaggc	60
ggagcgagga	gctcggggag	gccgtgggcg	gcggccaggc	cgcggccggc	ctggcggaga	120
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cagcatagca	gatgctgctg	ctggttaaga	gaatagatgc	aaacaaggca	tgcatattggc	1500
caaaataaac	aaatgctggt	ctgtccaaaa	aannaaaaaa	aaaaaaaaaa		1549

Homo sapiens interferon, gamma-inducible protein 16, mRNA (cDNA clone MGC:9466 IMAGE:3914632), complete cds.

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gcagaatagg agcaagccag cactagtcag ctaactaagt gactcaacca aggccttttt 60
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tcaatcctga ttcaagtatg gaaacttcac cagacttttt cttctaaaat ctggatgtca 2460
ttgacgataa tgtttatgga gataaggtct aagtgcctaa aaaaatgtac atatacctgg 2520
ttgaaataca acactataca tacacaccac catatatact agctgttaat cctatggaat 2580
gggttattgg gagtgttttt ttaatttttc atagtttttt ttaataaaaa tggcatattt 2640
tgcatctaca acttctataa tttgaaaaaa taaataaaca ttatcttttt tgtgaaaaaa 2700
aaaaaaaaa

```

Homo sapiens guanylate binding protein 1, interferon-inducible, 67kDa, mRNA  
(cDNA clone MGC:3949 IMAGE:3606865), complete cds.

```

ggagtcagtg atttgaacga agtactttca gtttcatatt actctaaatc cattacaaat      60
ctgcttagct tctaaatatt tcatcaatga ggaaatccca gccctacaac ttcggaacag      120
tgaaatatta gtccagggat ccagtgaag acacagaagt gctagaagcc agtgctcgtg      180
aactaaggag aaaaagaaca gacaaggga cagcctggac atggcatcag agatccacat      240
gacaggccca atgtgcctca ttgagaacac taatgggcga ctgatggcga atccagaagc      300
tctgaagatc ctttctgccca ttacacagcc tatggtggtg gtggcaattg tgggcctcta      360
ccgcacaggg aaatcctacc tgatgaacaa gctggctgga aagaaaaagg gcttctctct      420
gggctccacg gtgcagtctc aactaaagg aatctggatg tgggtgtgtg cccaccccaa      480
gaagccaggc cacatcctag ttctgctgga caccgagggg ctgggagatg tagagaaggg      540
tgacaaccag aatgactcct ggatcttcgc cctggcgcgc ctctgagca gcacctctgt      600
gtacaatagc ataggaacca tcaaccagca ggctatggac caactgtact atgtgacaga      660
gctgacacat agaatccgat caaaatcctc acctgatgag aatgagaatg aggttgagga      720
ttcagctgac tttgtgagct tcttcccaga ctttgtgtgg aactgagag atttctccct      780
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caaggagtct atgactgatg caattctcca gacagaccag actctcacag aaaaagaaaa      1680
ggagattgaa gtggaacgtg tgaaagctga gtctgcacag gcttcagcaa aaatgttgca      1740
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gaggaccctc gctcttaaac ttcaggaaca ggagcaacta ctaaaagagg gatttcaaaa      1920
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aaacaatttt agaatttggg acaagcgtoa ctacatttga taataattag atcttgcac      2100
ataacaccaa aagtttataa aggcattgtg tacaatgatc aaaatcatgt tttttcttaa      2160
aaaaaaaaa aaaaaa

```

Homo sapiens interferon induced transmembrane protein 1 (9-27), mRNA (cDNA clone MGC:5195 IMAGE:3464598), -complete cds.

aaacgacagg	ggaaaggagg	tctcactgag	caccgtccca	gcatccggac	accacagcgg	60
cccttcgctc	cacgcagaaa	accacacttc	tcaaaccttc	actcaacact	tccttcccca	120
aagccagaag	atgcacaagg	aggaacatga	ggtggctgtg	ctgggggcac	ccccagcac	180
catacttcca	aggtccaccg	tgatcaacat	ccacagcgag	acctccgtgc	ccgaccatgt	240
cgtctggtcc	ctgttcaaca	ccctcttctt	gaactggtgc	tgtctgggct	tcatagcatt	300
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gataatacag	gaaaaacggg	gttactagta	gccgcccata	gcctgcaacc	tttgcaactcc	540
actgtgcaat	gctggccctg	cacgctgggg	ctgttgcccc	tgcccccttg	gtcctgcccc	600
tagatacagc	agtttatacc	cacacacctg	tctacagtgt	cattcaataa	agtgcacgtg	660
cttgtgaaaa	aaaaaaaaaa	aaa				683



Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

attaaacctc	tgcgcgagcc	cctccgcaga	ctctgcgcgc	gaaagtttca	tttgcgtgat	60
gccatcctcg	agagctgtct	aggttaacgt	tcgcactctg	tgtatataac	ctcgacagtc	120
ttggcaccta	acgtgctgtg	ogtagctgct	cctttgggtg	aatccccagg	cccttgttgg	180
ggcacaagggt	ggcaggatgt	ctcagtggtg	cgaacttcag	cagcttgact	caaaattcct	240
ggagcagggtt	caccagcttt	atgatgacag	ttttcccatg	gaaatcagac	agtacctggc	300
acagtggtta	gaaaagcaag	actgggagca	cgctgccaat	gatgtttcat	ttgccaccat	360
ccgttttcat	gacctcctgt	cacagctgga	tgatcaatat	agtcgctttt	ctttggagaa	420
taacttcttg	ctacagcata	acataaggaa	aagcaagcgt	aatcttcagg	ataattttca	480
ggaagaccca	atccagatgt	ctatgatcat	ttacagctgt	ctgaagggaag	aaaggaaaat	540
tctggaaaaa	gcccagagat	ttaatcaggc	tcagtcgggg	aatattcaga	gcacagtgat	600
gtagacaaaa	cagaaagagc	ttgacagtaa	agtcagaaat	gtgaaggaca	aggttatgtg	660
tatagagcat	gaaatcaaga	gcctggaaga	tttacaagat	gaatatgact	tcaaattgcaa	720
<del>aaecttgcag</del>	<del>aaagagagaac</del>	<del>aegagaccaa</del>	<del>tgggtgtggca</del>	<del>aagagtgatc</del>	<del>agaaacaaga</del>	780
acagctgtta	ctcaagaaga	tgtatttaat	gcttgacaat	aagagaaaag	aagtagttca	840
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caccaatggc	agtctggcgg	ctgaatttcg	gcacctgcaa	ttgaaagaac	agaaaaatgc	1440
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aatgacacta	gctaatatca	atagaaggat	gtacatttcc	aaattcacaa	gttgtgtttg	3180
atatccaaag	ctgaatacat	tctgctttca	tcttggtcac	atacaattat	ttttacagtt	3240
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ggtggagata	aagatttctt	gagttttgtt	ttaaaattaa	agctaaagta	tctgtattgc	3840
attaaatata	atatcgacac	agtgttttcc	gtggcactgc	atacaatctg	aggcctctc	3900
tctcagtttt	tatatagatg	gcgagaacct	aagtttcagt	tgattttaca	attgaaatga	3960
ctaaaaaaca	aagaagacaa	cattaaaaac	aatattgttt	cta		4003

Homo sapiens phospholipid scramblase 1, mRNA (cDNA clone IMAGE:4253596), complete cds.

gagaaggttg	cgcagcagct	gtgcccggca	gtctagaggc	gcagaagagg	aagccatcgc	60
ctggccccgg	ctctctggac	cttgtctcgc	tcgggagcgg	aaacagcggc	agccagagaa	120
ctgttttaat	catggacaaa	caaaactcac	agatgaatgc	ttctcaccoc	gaaacaaact	180
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ttataaatgc	cattaataaa	ggagtaaaaa	gccaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1140
aaa						1143

Homo sapiens metalloprotease disintegrin cysteine-rich protein, secreted form mRNA, complete cds.

gcgagaagag	cagacaccgt	gctcctggaa	tcaccagca	tggtgcaagg	tctcctgcc	60
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tactgtggga	tgggacagaa	ataaaaaaaaa	aaaaaaaaaaa	aaaaaaa		2087

Homo sapiens matrix metalloproteinase 7 (matrilysin, uterine), mRNA (cDNA clone MGC:3913 IMAGE:3545760), complete cds.

```

gtccaagaac aattgtctct ggacggcagc tatgcgactc accgtgctgt gtgctgtgtg      60
cctgctgcct ggcagcctgg ccctgccgct gcctcaggag gcgggaggca tgagtgagct      120
acagtgggaa caggctcagg actatctcaa gagattttat ctctatgact cagaaacaaa      180
aaatgccaac agtttagaag ccaaactcaa ggagatgcaa aaattctttg gcctacctat      240
aactggaaatg ttaaaactccc acgtcataga aataatgcag aagcccagat gtggagtgcc      300
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gggttttgaa tgtctttcac tccttttaag gataaaactcc tttatggtgt gactgtgtgt      1020
tattcatcta tacttgagcagg gggtagatgt caataaatgt tacatacaca aataaataaa      1080
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## Homo sapiens cDNA FLJ10650 fis, clone NT2RP2005853

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## Homo sapiens transcription factor ISGF-3 mRNA, complete cds

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Homo sapiens RNA helicase (RIG-I) mRNA, complete cds.

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aaaaa						3065



Homo sapiens melanoma differentiation associated protein-5 (MDA5) mRNA,  
complete cds.

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aggaattttg	tagtggtttt	caaaaataat	tcaacaaaga	aacaatacaa	aaagtgggta	3180
gaattaccta	tcacatttcc	caatcttgac	tattcagaat	gctgtttatt	tagtgatgag	3240

gattagcact	tgattgaaga	ttctttttaa	atactatcag	ttaaacattt	aatatgatta	3300
tgattaatgt	attcattatg	ctacagaact	gacataagaa	tcaataaaat	gattgtttta	3360
ctctgaaaaa	aaaaaaaaaa					3380

Homo sapiens signal transducer and activator of transcription 1, 91kDa, transcript variant beta, mRNA (cDNA clone MGC:3493 IMAGE:3627218), complete cds.

tcgctttcct	gcgcagagtc	tgccgagggg	ctcggtcgca	ccggggggat	cgcgctggc	60
agacccaga	ccgagcagag	gcgacccagc	gogctcggga	gaggctgcac	cgccgcgccc	120
ccgcctagcc	cttccggatc	ctgcgcgcag	aaaagtttca	tttgctgtat	gccatcctcg	180
agagctgtct	aggttaacgt	tcgactctg	tgtatataac	ctcgacagtc	ttggcaccta	240
acgtgctgtg	cgtagctgct	cctttggttg	aatccccagg	cccttggtgg	ggcacaaggt	300
ggcaggatgt	ctcagtggta	cgaacttcag	cagcttgact	caaaattcct	ggagcaggtt	360
caccagcttt	atgatgacag	ttttcccatg	gaaatcagac	agtacctggc	acagtgggta	420
gaaaagcaag	actgggagca	cgctgccaat	gatgtttcat	ttgccaccat	ccgttttcat	480
gacctcctgt	cacagctgga	tgatcaatat	agtcgctttt	ctttggagaa	taacttcttg	540
ctacagcata	acataaggaa	aagcaagcgt	aatcttcagg	ataattttca	ggaagaccca	600
atccagatgt	ctatgatcat	ttacagctgt	ctgaagggaag	aaaggaaaat	tctggaaaac	660
<del>gcccagagat</del>	<del>ttaateagge</del>	<del>teagtegggg</del>	<del>aatatteaga</del>	<del>geaacgtgat</del>	<del>gttagacaaa</del>	<del>720</del>
cagaaagagc	ttgacagtaa	agtcagaaat	gtgaaggaca	aggttatgtg	tatagagcat	780
gaaatcaaga	gcctggaaga	tttacaagat	gaatatgact	tcaaatacaa	aaccttgacg	840
aacagagaac	acgagaccac	tggtgtggca	aagagtgtac	agaaacaaga	acagctgtta	900
ctcaagaaga	tgtatttaat	gcttgacaat	aagagaaagg	aagtagtca	caaaataata	960
gagttgctga	atgtcactga	acttaccag	aatgccctga	ttaatgatga	actagtggag	1020
tggaagcgga	gacagcagag	cgctgtatt	ggggggccgc	ccaatgcttg	cttggatcag	1080
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gcggaaccca	ggaatctgtc	cttcttcctg	actccaccat	gtgcacgatg	ggctcagctt	1800
tcagaagtgc	tgagttggca	gttttcttct	gtcaccaaaa	gaggtctcaa	tgtggaccag	1860
ctgaacatgt	tgaggagaga	gcttcttggg	cctaaccgca	gccccgatgg	tctcattccg	1920
tggaagaggt	tttgtaagga	aaatataaat	gataaaaatt	ttoccttctg	gctttggatt	1980
gaaagcatcc	tagaactcat	taaaaaacac	ctgctccctc	tctggaatga	tgggtgcatc	2040
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ttcctgctgc	ggttcagtga	gagctcccgg	gaaggggcca	tcacattcac	atgggtggag	2160
cggctccaga	acggaggcga	acctgacttc	catgcccgtg	aacctacac	gaagaaagaa	2220
ctttctgctg	ttactttccc	tgacatcatt	cgcaattaca	aagtcatggc	tgtgagaat	2280
attcctgaga	atcccctgaa	gtatctgtat	ccaaatatgg	acaaagacca	tgcctttgga	2340
aagtattact	ccaggccaaa	ggaagcacca	gagccaattg	aacttgatgg	ccctaaagga	2400
actggatata	tcaagactga	gttgatttct	gtgtctgaag	tgtaaagtga	cacagaagag	2460
tgacatgttt	acaaacctca	agccagcctt	gctcctggct	ggggcctggt	gaagatgctt	2520
gtattttact	tttccattgt	aattgctatc	gccatcacag	ctgaacttgt	tgagatcccc	2580
gtgttactgc	ctatcagcat	tttactactt	taaaaaaaaa	aaaaaaaaa		2629

Homo sapiens cDNA: FLJ21350 fis, clone COL02751.

tttttttttt	tttttttttt	aagcaagccc	ccaacacccat	agaaaattct	tgatttgctc	60
ggaggataat	tggatgaagg	attattttct	tctttgttta	tgtgcaagaa	atgaaaataa	120
ggaattgctt	tgatcagaca	acttcttata	tttgtggtag	aaacagaact	gcccttcttg	180
gagtggctct	gcctctgaga	tcactacagg	ggagacagca	tgccctgttc	agctggctga	240
atatttggca	acaatctcct	gaagcagctg	gaattgacaa	gaagtactgg	agattagctc	300
gggccaaacc	cttacatctg	gcctgactac	tgctgcagtc	tgcctcaact	taccctctaa	360
gctggggaga	tgccacccac	ccacatcttt	gctacacatg	ccatcatgag	ctagagttca	420
ccctttctcc	ttaaagccct	atttactttt	ctacttcaac	tttaaaacaa	aattaaaatg	480
tgaggatata	cctgaatttt	aaaaagcatg	aagtaaaaat	gcaaattagt	atagtttgtt	540
taatacatta	catatagacc	taaagaaagt	tcatacgggt	taatcatttg	tcacatcatt	600
ctatacccag	ggctatcagc	tatcaatttt	cccttttttt	tttttttttt	tttaattcag	660
gatccagctc	tgtcaccacg	gctggagtgc	agtatcaaag	tatcatttct	cttacttcaa	720
attattacat	tttattctgt	acattgattc	tgaactccta	atataatatt	tatgtcctgt	780
atttgcaggc	cattgggttt	tttaaagtca	taaatcaaaa	tgatgccaga	aaatcaaaga	840
tgccaagat	gttgggcttc	tcttttgcca	gccacattgg	tagcactctc	ctgccctggc	900
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gcgcctgtag	tcccagctac	tctggaggct	gaggcaggag	aatggcgtga	acccaggagg	1680
cggagcttgc	agtgatccga	gatcacacca	ctgcactgca	gtctgggcaa	cagagcgaga	1740
ctccatctca	aaaaaaaaaa	aaaaa				1765

## Homo sapiens IFI16b (IFI16b) mRNA, complete cds.

gggaatagca	gaataggagc	aagccagcac	tagtcagcta	actaagtgc	tcaaccaagg	60
ccttttttcc	ttgttatctt	tgcagatact	tcatttttct	agcgtttctg	gagattacaa	120
catcctgogg	ttcogtttct	gggaacttta	ctgattttatc	tccccctca	cacaaataag	180
cattgattcc	tgcattttctg	aagatctcaa	gatctggact	actgttgaaa	aaattttccag	240
tgaggctcac	ttatgtctgt	aaagatggga	aaaaaataca	agaacattgt	tctactaaaa	300
ggattagagg	tcatcaatga	ttatcatttt	agaatggtta	agtccttact	gagcaacgat	360
ttaaaaactta	atttaaaaat	gagagaagag	tatgacaaaa	ttcagattgc	tgacttgatg	420
gaagaaaagt	tccgaggtga	tgctggtttg	ggcaactaa	taaaaatttt	cgaagatata	480
ccaacgcttg	aagacctggc	tgaaactctt	aaaaagaaa	agttaaaagt	aaaaggacca	540
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aatgaataat	gagctacaaa	ccagaacaat	gtgactagat	agaaagaaag	tagttccata	3120
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gccataaaaa	gcctctattc	tctgctcttg	ggcagggtgtg	aaagaaacct	accaaattaa	3300
tcagattttt	ctgtatccag	gctccttaaa	aaatcccagc	tgtgctgatg	tggaacagg	3360
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gcataatttg	catctacaac	ttctataaatt	tgaaaaaata	aataaacatt	atcttttttg	4140
tgaaaaaaaa	a					4151

Homo sapiens mRNA for STAT induced STAT inhibitor-2, complete cds.

gggcggccac	ctgtctttgc	cgcggtgacc	cttctctcat	gaccctgcgg	tgcttgagc	60
cctccgggaa	tggcggggaa	gggacgcgga	gccagtgggg	gaccgcgggg	tcggcggagg	120
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catcagctgg	accaaactaat	cttcgaatcg	aataccaaga	cggaaaattc	agattggact	360
ctatcatatg	tgtcaaatcc	aagcttaaac	aatttgacag	tgtggttcac	ctgatcgact	420
actatgttca	gatgtgcaag	gataagcgga	caggtccaga	agccccccgg	aacggcactg	480
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ggctcaccat	taacaaatgt	accggtgcc	tctggggact	gcctttacca	acaagactaa	600
aagattactt	ggaagaatat	aaattccagg	tataaatgtt	tctctttttt	taaacatgtc	660
tcacatagag	tatctccgaa	tgcagctatg	taaaagagaa	ccaa		704

Homo sapiens transcription factor ISGF-3 mRNA, complete cds.						
attaaacctc	tgcgcgagcc	cctccgcaga	ctctgcgcgc	gaaagtttca	tttgctgtat	60
gccatcctcg	agagctgtct	aggttaacgt	tgcactctg	tgtatataac	ctcgacagtc	120
ttggcaccta	acgtgctgtg	cgtagctgct	cctttggttg	aatccccagg	cccttgttgg	180
ggcacaaagt	ggcaggatgt	ctcagtggtg	cgaacttcag	cagcttgact	caaaattcct	240
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Homo sapiens pancreas sodium bicarbonate cotransporter mRNA, complete cds.

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Homo sapiens interferon stimulated T-cell alpha chemoattractant precursor,  
mRNA, complete cds.

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Homo sapiens mRNA; cDNA DKFZp586J0323 (from clone DKFZp586J0323)

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Homo sapiens cDNA FLJ20637 fis, clone KAT03212.

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ttcacttttg	ctgcttcact	gccttgtgct	ccaataaatc	cactccttca	ccacccaaaa	1980
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa				2010

Homo sapiens sodium bicarbonate cotransporter (HNBC1) mRNA, complete cds.

gttctttgtg	acacatcaca	cagaattgga	gtgctgtcct	tctggagagt	ggaggagaac	60
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Human BRCA1-associated RING domain protein (BARD1) mRNA, complete cds.

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## Human 18S rRNA gene, complete.

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ggacaggatt	gacagattga	tagctctttc	tcgattccgt	gggtggtggt	gcatggccgt	1440
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taactagtta	cgcgaccccc	gagcggtcgg	cgtcccccaa	cttcttagag	ggacaagtgg	1560
cgttcagcca	cccagatttg	agcaataaca	ggtctgtgat	gcccttagat	gtccggggct	1620
gcacgcgcgc	tacactgact	ggctcagcgt	gtgcctaccc	tacgcccggca	ggcgcgggta	1680
acccgttgaa	ccccattcgt	gatggggatc	ggggattgca	attattcccc	atgaacgagg	1740
aattcccagt	aagtgcgggt	cataagcttg	cgttgattaa	gtccctgccc	tttgtacaca	1800
ccgcccgtcg	ctactaccga	ttggatggtt	tagtgaggcc	ctcggatcgg	ccccgccggg	1860
gtcggccccac	ggcctggcgg	agcgtgaga	agacggtcga	acttgactat	ctagaggaag	1920
taaaagtcgt	aacaagggtt	ccgtaggtga	acctgcggaa	ggatcatta		1969

## Human mRNA for 56-KDa protein induced by interferon

ccagatctca	gaggagcctg	gctaagcaaa	accctgcaga	acggctgcct	aatttacagc	60
aaccatgagt	acaaatggtg	atgatcatca	ggtcaaggat	agtctggagc	aattgagatg	120
tcactttaca	tgggagttat	ccattgatga	cgatgaaatg	cctgatttag	aaaacagagt	180
cttgatcag	attgaattcc	tagacaccaa	atacagtgtg	ggaatacaca	acctactagc	240
ctatgtgaaa	cacctgaaag	gccagaatga	ggaagccctg	aagagcttaa	aagaagctga	300
aaacttaatg	caggaagaac	atgacaacca	agcaaagtgt	aggagtctgg	tgacctgggg	360
caactttgcc	tggatgtatt	accacatggg	cagactggca	gaagcccaga	cttacctgga	420
caagggtggag	aacatttgca	agaagctttc	aaatcccttc	cgctatagaa	tggagtgtcc	480
agaaatagac	tgtgaggaag	gatgggcctt	gctgaagtgt	ggaggaaaaga	attatgaacg	540
ggccaaggcc	tgctttgaaa	aggtgcttga	agtggaccct	gaaaaccctg	aatccagcgc	600
tgggtatgcg	atctctgcct	atcgcctgga	tggctttaaa	ttagccacaa	aaaatcacia	660
gccatthttct	ttgcttcccc	taaggcaggc	tgtccgctta	aatccagaca	atggatatat	720
taaggttctc	cttgccctga	agcttcagga	tgaaggacag	gaagctgaag	gagaaaagta	780
cattgaagaa	gctctagcca	acatgtcctc	acagacctat	gtctttcgat	atgcagccaa	840
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gatccaaatc	aaggaggcta	caaaagggca	gcctagaggg	cagaacagag	aaaagctaga	1020
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tgagggtggct	catctagacc	tggcaagaat	gtatatagaa	gcaggcaatc	acagaaaagc	1140
tgaagagaat	tttcaaaaat	tgttatgcat	gaaaccagtg	gtagaagaaa	caatgcaaga	1200
catcacatttc	tactatggtc	ggtttcagga	atttcaaaag	aaatctgacg	tcaatgcact	1260
tatccattat	ttaaaagcta	taaaaataga	acaggcatca	ttaacaaggg	ataaaaagtat	1320
caattctttg	aagaaattgg	ttttaaggaa	acttcggaga	aaggcattag	atctggaaaag	1380
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ctatgagcgg	gccctgagac	tggctgctga	ctttgagaac	tctgtgagac	aaggctctta	1500
ggcaccacaga	tatcagccac	tttcacattt	catttcattt	tatgctaaca	tttactaatc	1560
atcttttctg	cttactgttt	tcagaaacat	tataattcac	tgtaatgatg	taattcttga	1620
ataataaatc	tgacaaaata	tt				1642

qpx82h04.x1 NCI\_CGAP\_GC6 Homo sapiens cDNA clone IMAGE:2009047 3', mRNA  
sequence.

gcagctaaat	taaaatgacc	ttttatttgc	ctggacaaca	aaaattttcc	atgattttgc	60
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aaactgcatg	ggatatttcc	acaaggagag	gattttgttc	cctgatctag	tttacgtgac	180
attttccctt	atgcttgctt	tctctgagct	gactcttctt	aaactgacct	agatggtacc	240
ctatttcaac	tgactcagag	ttcattcaaa	aatatgatat	ggtgacttgg	cttcactgac	300
atgaaatcca	ggcactctct	ctactcttgc	tcacattctt	ccttgcccaa	ggttccagcg	360
tgatttttagg	atatcttatg	ccaaccagct	gtgccgtcac	ttctcagaga	tgtagggcca	420

Human interferon-induced cellular resistance mediator protein (MxA) mRNA,  
complete cds.

ggaattctgt	ggccatactg	cgaggagatc	ggttccgggt	cggaggctac	aggaagactc	60
ccactccctg	aaatctggag	tgaagaacgc	cgccatccag	ccaccattcc	aaggagggtgc	120
aggagaacag	ctctgtgata	ccattttaact	tgttgacatt	acttttattt	gaaggaaactg	180
atattagagc	ttactttgca	aagaaggaag	atgggtgttt	ccgaagtgga	catcgcaaaa	240
gctgatccag	ctgctgcatc	ccacctcta	ttactgaatg	gagatgctac	tgtggcccag	300
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ctcatcacac	atatctgtaa	atctctgccc	ctgttagaaa	atcaaatcaa	ggagactcac	1260
cagagaataa	cagaggagct	acaaaagtat	ggtgtcgaca	taccggaaga	cgaaaatgaa	1320
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caaggagagg	aaactgtagg	ggaggaagac	attcggctgt	ttaccagact	ccgacacgag	1440
ttccacaaat	ggagtacaat	aattgaaaac	aattttcaag	aaggccataa	aattttgagt	1500
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gtctactgcc	aggaccaggt	atacaggggt	gcattgcaga	aggtcagaga	gaaggagctg	1860
gaagaagaaa	agaagaagaa	atcctgggat	tttggggctt	tccaatccag	ctcggcaaca	1920
gactcttcca	tggaggagat	ctttcagcac	ctgatggcct	atcaccagga	ggccagcaag	1980
cgcactctcca	gccacatccc	tttgatcatc	cagttcttca	tgtctccagac	gtacggccag	2040
cagcttcaga	aggccatgct	gcagctcctg	caggacaagg	acacctacag	ctggctcctg	2100
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aacatcacag	cttatttcct	cattttttata	atgtcccttc	acaaaccag	tgttttagga	2580
gcatgagtgc	cgtgtgtgtg	cgtcctgtcg	gagccctgtc	tctctctctg	taataaactc	2640
atttctagca	g					2651

Homo sapiens cDNA: FLJ21726 fis, clone COLF1088.

agtgc	atgga	gacgagaggt	gtttc	taaaag	atgggagaaa	tgacagcgtg	catgtgtgcc	60
gatgggagtc	accccataga	gaaggaagaa	agcagtgaca	gaggagagga	ctgctccttg			120
tccttgagta	gttggccaag	ggagagacct	cctgcacaaa	tggagggttt	ggcctcacgc			180
agaaagaagc	acacttggtt	catccctggc	agcaggaggg	aaggcgtggg	tgtagggaac			240
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gagcagcagt	ggacggtgag	aatggggatg	ttcccatcca	gctttcaggg	tcccatgtga			360
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aagaagctgg	ccctgcgcgc	ctcctcccag	gacgaagctg	aggactggct	ggaccgggtg			780
cgggaggccc	tgcagaaggt	ccggcctcag	caggaggatg	agtgggtgaa	cgtgcagtac			840
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ctgcctcccc	gcaaagtccc	ccatccttcc	cctagggatg	aggccacaga	tcaggcttgc			1560
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ctttcagagc	aggggcatgg	tttccttcca	aatattttctg	ctgcttttat	aagtgtacac			1800
cctttttttt	aattataaaa	atgggctcgt	gctaaaaaaa	aaaaaaaaaa	aaaaaaaaaa			1859

xw86e11.x1 NCI\_CGAP\_Pan1 Homo sapiens cDNA clone IMAGE:2834924 3', mRNA  
sequence.

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aacctttcac	atatctattt	tttctcttgt	gcacagttga	taatttcctc	ccttagattc	300
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aagaggaata	ttggaccact	gaaaatctca	accaacgcta	atattaggag	cacacgtacc	420
atgaggaaga	gaagggatgg	ggaaaccaag	atggcagagt	tagagcaaca	aagttagtaa	480
catgagagtt	tcccagcaat	ttgagtaaga				510



Human 71 kDa 2'5' oligoadenylate synthetase (p69 2-5A synthetase) mRNA,  
complete cds.

cggcagccag	ctgagagcaa	tgggaaatgg	ggagtcaccag	ctgtcctcgg	tgccctgctca	60
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Homo sapiens cDNA FLJ20035 fis, clone COL00213.

aatctgtggt	ttttgctcaa	aactcagtct	atctggatgc	gttgaattat	agacagatgt	60
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cattccccaa	aataggaaaa	ctcataaaat	ccaatgttcc	tgagctgaga	ggacacttcc	180
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ccagagtcac	ggacatgtta	aaactttact	tctgttttcc	tttgcagttc	ctggtgaaag	360
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tttccaaact	ggctgatatg	aatcaggaat	atcaactccc	attgtcaaaa	atcaaattca	780
caggtaaaga	atgtgaagac	tctcaactcg	tatctcattt	gatgagctgc	aaggaaggaa	840
gagtagcaat	ttcaccattt	gtttgtctgt	ctgggaactt	tgatgatgat	ttgcttcgac	900
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gagatgctta	ttatttggtg	aaggattttg	cactcaccat	taaatctatc	agtgtttcct	1140
tgcgtgagct	atgtgaaaat	gaagacgaca	acgttgtctt	agcctttgaa	caactgagta	1200
caactttttg	ggaaaagtta	aacaaagtct	aaaaacaaag	tctatgcaaa	ccactcaaaa	1260
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atttgcttta	ttgttaattgt	atataagtga	ctggaaaagc	acaaagaaat	aaagtgggtt	1860
cgatctgttt	accaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaa		1906

## Homo sapiens monocarboxylate transporter 2 (hMCT2) mRNA, complete cds.

ggaaacttct	gcctcaggtg	gggagaggag	tccatagatc	agggaaactt	atgtcttggt	60
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aaaa						2104

Homo sapiens interferon-induced protein 44, mRNA (cDNA clone MGC:24007

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gtgtccatgg	attccgtaat	ggagttttgc	ttgacagatg	ttgtaatcaa	gggcctactc	240
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agtaataatt	tttcttggat	ttatgttctg	tatctgtgaa	aaaataaatt	tcttataaaa	1680
ctcggaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa			1714

601067066F1 NIH\_MGC\_10 Homo sapiens cDNA clone IMAGE:3453257 5', mRNA sequence.

aaatctcaag acacattcac aaacaaatgg ttatcaccaa ggtcttcatg ctctactcat	60
gttgacatga gttgtattaa ttggtgactg gaagtccagg atctgttgag gaagtcagtg	120
acccttaaat tcaggaacac tgccttggaa ggtggtggac ctttaaaaca gaagcttctc	180
agttttgtag catctgatat gagagaatat gctagatatt cataaaactta gggccaggca	240
atgtggggcc cctggaatgc tactgggcac tctctaacct agtcctagaa atttcagttc	300
caataatgtt ttcttcttct tttctagata gaaactatat gtatctcgtg gatctgccag	360
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aatgaaagct gtcacacca cttgcctccc caatctgtta aacagcttcg tgtctagtat	600
gagctcagta ctttgctgtg gaaaatccca gaagcccccg ctgtcaatgg ttcccatcc	660
aaccctgttt gctcctgtgt aacagtcaga tgatgactaa taataaaact gtactttttg	720
gaaaaaaca aaaggggggc ggcāaaāgac cccgāg	756

## Human glutamate receptor subunit (GluH1) mRNA, complete cds.

```

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```

zn32e02.s1 Stratagene endothelial cell 937223 Homo sapiens cDNA clone  
IMAGE:549146 3', mRNA sequence.

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tattaatttg aggaaaatac accaaaatac attaagtaaa ttatttaaga tcatagagct      180
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c                                                                    601
```

Homo sapiens mRNA expressed in osteoblast, complete cds.

gcacgaggaa gccacagatc tcttaagaac tttctgtctc caaacctgtg ctgctcgata	60
aatcagacag aacagttaat cctcaattta agcctgatct aaccctaga aacagatata	120
gaacaatgga agtgacaaca agattgacat ggaatgatga aaatcatctg cgcaactgct	180
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aaaccccatc tccactgc	2058



DE wy59c01.x1 Soares\_NSF\_F8\_9W\_OT\_PA\_P\_S1 Homo sapiens cDNA clone  
DE IMAGE:2552832 3', mRNA sequence.

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Homo sapiens mRNA for C11ORF25 gene

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## Homo sapiens isopentenyl-diphosphate delta isomerase, mRNA (cDNA clone

gtgttctaga	acagatcaga	cattttgtaa	tgatgcctga	aataaacact	aaccacctcg	60
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## Human prostaglandin endoperoxide synthase mRNA, complete cds.

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602381868F1 NIH\_MGC\_93 Homo sapiens cDNA clone IMAGE:4499393 5', mRNA sequence.

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c						901

Homo sapiens mRNA for quinolinate phosphoribosyl transferase, complete cds.

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ccgagtgtgg	ctgtggaagc	cagtgggggc	atcaccctgg	acaacctccc	ccagttctgc	780
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ttctccctca	agctgtttgc	caaagaggtg	gctccagtgc	ccaaaatcca	ctag	894

## Homo sapiens mRNA for cytochrome P-450 HFLa, complete cds.

gtgatggatc	tcatcccaaa	cttggccgtg	gaaacctggc	ttctcctggc	tgtcagcctg	60
atactcctct	atctatatgg	aaccogtaca	catggacttt	ttaagaagct	tggaaattcca	120
gggcccacac	ctctgccttt	tttgggaaat	gctttgtcct	tccgtaaggg	ctattggacg	180
tttgacatgg	aatgttataa	aaagtataga	aaagtctggg	gtatttatga	ctgtcaacag	240
cctatgctgg	ctatcacaga	tcccgacatg	atcaaaacag	tgctagtga	agaatgttat	300
tctgtcttca	caaaccggag	gcctttcggg	ccagtgggat	ttatgaaaaa	tgccatctct	360
atagctgagg	atgaagaatg	gaagagaata	cgatcattgc	tgtctccaac	attcaccagc	420
ggaaaactca	aggagatgg	ccctatcatt	gccagtatg	gagatgtgtt	ggtgagaaat	480
ctgaggcggg	aagcagagac	aggcaagcct	gtcaccttga	aacacgtctt	tggggcctac	540
agcatggatg	tgatcactag	cacatcattt	ggagtgaagc	tgcactctct	caacaatcca	600
caagaccctt	ttgtggaaaa	caccaagaag	cttttaagat	ttaatccatt	agatccattc	660
gttctctcaa	taaaagtcct	tccattcctt	acccaattc	ttgaagcatt	aaatatcact	720
gtgtttccaa	gaaaagttat	aagttttcta	acaaaatctg	taaaacagat	aaaagaaggt	780
cgctcaaag	agacacaaaa	gcaccgagt	gatttccttc	agctgatgat	tgactctcag	840
aattcaaaag	actctgagac	ccacaaagct	ctgtctgac	tggagctcat	ggcccaatca	900
attatcttta	tttttgctgg	ctatgaaacc	acgagcagtg	ttctctcctt	cattatatat	960
gaactggcca	ctcaccctga	tgtccagcag	aaagtgcaga	aggaaattga	tacagtttta	1020
cccaataagg	caccaccac	ctatgatact	gtgctacagt	tggagtatct	tgacatggtg	1080
gtgaatgaaa	cactcagatt	attcccagtt	gctatgagac	ttgagagggg	ctgcaaaaaa	1140
gatgttgaaa	tcaatgggat	gtttattccc	aaaggggtgg	tgggtgatgat	tccaagctat	1200
gttcttcatc	atgacccaaa	gtactggaca	gagcctgaga	agttcctccc	tgaaagggtc	1260
agtaaaaaga	acaaggacaa	catagatcct	tacatataca	caccctttgg	aagtggaccc	1320
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atttggtctc	tctgcttctc	ataggactat	ctccaccacc	cccagttagc	accattaact	1800
cctcctgagc	tctgataaca	taattaacat	ttctcaataa	tttcaaccac	aatcattaat	1860
aaaaatagga	attattttga	tggctctaac	agtgacattt	atatcatgtg	ttatatctgt	1920
agtattctat	agtaagcttt	atattaagca	aatcaataaa	aacctcttta	c	1971



Human mRNA for endothelin converting enzyme, complete cds.

atgcggggcg tgtggccgcc cccggtgtcc gccctgctgt cggcgctggg gatgtcgacg	60
tacaagcggg ccacgctgga cgaggaggac ctggaggact cgctctccga ggcgcagcga	120
taccccaacg gcctgcaggt gaacttccac agccccgga gtggccagag gtgctgggct	180
gcacggaccc aggtggagaa gcggtggtg gtgttggtg tacttctggc ggcaggactg	240
gtggcctgct tggcagcact gggcatccag taccagacaa gatccccctc tgtgtgcctg	300
agcgaagctt gtgtctcagt gaccagctcc atcttgagct ccatggaccc cacagtggac	360
ccctgccatg acttcttcag ctacgcctgt gggggctgga tcaaggccaa cccagtccct	420
gatggccact cacgctgggg gaccttcagc aacctctggg aacacaacca agcaatcatc	480
aagcacctcc tcgaaaactc cacggccagg gtgacgcagg cagagagaaa ggcgcaagta	540
tactaccgtg cgtgcatgaa cgagaccagg atcgaggagc tcaggggccaa acctctaag	600
gagttgattg agaggctcgg gggctggaac atcacaggc cctggggccaa ggacaacttc	660
caggacaccc tgcagtggt caccgcccac taccgcacct cacccttctt ctctgtctat	720
gtcagtgccg attccaagaa ctccaacagc aacgtgatcc aggtggacca gtctggcctg	780
ggcttgccct cgagagacta ttacctgaac aaaactgaaa acgagaaggt gctgaccgga	840
tatctgaact acatggtcca gctggggaag ctgctgggag gcggggacga ggaggccatc	900
cggcccccaga tgcagcagat cttggacttt gagacggcac tggccaacat cadcatccca	960
caggagaagc gccgtgatga ggagctcatc taccacaag tgacggcagc cgagctgcag	1020
accttgccac ccgcatcaa ctgggtgcct tttctcaaca ccattcteta ccccgaggag	1080
atcaatgaat ccgagcctat tgtggtctat gacaaggaat accttgagca gatctccact	1140
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aaaacaagct ccttccttga ccagcgcttt caggacgccg atgagaagtt catggaagtc	1260
atgtacggga ccaagaagac ctgtcttctt cgctggaagt tttgctgag tgacacagaa	1320
aacaacctgg gctttgcgtt gggcccccag tttgtcaaa caaccttcgc cgaggacagc	1380
aagagcatag ccacogagat catcctggag attaagaagg catttgagga aagcctgagc	1440
accctgaagt ggatggatga ggaaaccgga aaatcagcca aggaaaaggc cgatgccatc	1500
tacaacatga taggataccc caacttcac atggatccca aggagctgga caaagtgttt	1560
aatgactaca ctgcagttcc agacctctac tttgaaaatg ccatgcggtt tttcaacttc	1620
tcatggaggg tcaactgccg tcagctcagg aaagccccc acagagatca gtggagcatg	1680
accccgccca tgggtgaacgc ctactactcg cccaccaaga atgagattgt gtttcggcc	1740
gggatcctgc aggcaccatt ctacacacgc tcctcacca aggccttaaa ctttggtggc	1800
ataggtgtcg tcgtgggcca tgagctgact catgcttttg atgatcaagg acgggagtat	1860
gacaaggacg ggaacctccg gccatggtgg aagaactcat ccgtggaggc cttcaagcgt	1920
cagaccgagt gcatggtaga gcagtacagc aactacagcg tgaacgggga gccggtgaac	1980
gggcggcaca ccctggggga gaacatcgcc gacaacgggg gtctcaaggc ggcctatcgg	2040
gcttaccaga actgggtgaa gaagaacggg gctgagcact cgctccccac cctgggcctc	2100
accaataacc agctcttctt cctgggcttt gcacaggtc ggtgctcgt ccgcacacct	2160
gagagctccc acgaaggcct catcaccgat cccacagcc cctctcgct ccgggtcatc	2220
ggctccctct ccaattccaa ggagttctca gaacacttc gctgccacc tggctcacc	2280
atgaaccgc ctcacaagtg cgaagtctgg taaggacgaa gcggagagag ccaagacgga	2340
ggaggggaag gggctgagga cgagaccccc atccagcctc cagggcattg ctacgcccgc	2400
ttggccacc	2409

602386668F1 NIH\_MGC\_93 Homo sapiens cDNA clone IMAGE:4515521 5', mRNA

gcagaatgga	agcttagagg	aacttgctg	tgagcgctgg	tcttgtgttg	gtttgtgatg	60
taacgatctt	gctgggggtt	tttgcttggt	ttgagggaaa	tgtcttggag	taaattttaa	120
gttcctggag	ttaatttggt	ttacaggaat	ttgtttttta	aaaaaatagg	atcattctga	180
acttggaatg	accccttat	atattttctg	aaaatgaaaa	cagttacatg	aaaaaaattt	240
ccaatgaaga	tgtcagcatt	ttatgaaaaa	ccagaagtta	ttagatgaaa	gcagcgagtg	300
aatctttaaa	acagacttga	tcacgcacac	acaataagtc	tttctctccg	aaaccggaag	360
taaatctata	tctgttagaa	ataatgtagc	caaaagaatg	taaatttgag	gattttttgc	420
caatagttaa	tagaaaatat	atgaaccaa	gtgatttgag	tttgtaaaaa	tgtaaaatag	480
tatgaacaaa	atttgactc	taccagattt	gaacatctag	tgagggtcac	attcatacta	540
agttttcaac	attgtgttct	tttggcattc	attttttact	tttattaaag	gttcaaaacc	600
aaaaaagaaa	aaaag					615

## Homo sapiens mRNA for Rev-ErbAalpha protein (hRev gene)

ccgttgccctc	aacgtccaac	ccttctgcag	ggctgcagtc	cgccaccccc	aagaccttgc	60
tgcaggggtgc	ttcggatcct	gatcgtgagt	cgcggggtcc	actccccgcc	cttagccagt	120
gcccaggggg	caacagcggc	gatcgcaacc	tctagtttga	gtcaagggtcc	agtttgaatg	180
accgctctca	gctgggtgaag	acatgaccac	cctggactcc	aacaacaaca	caggtggcgt	240
catcacctac	attgggtcca	gtggctcctc	ccaagccgc	accagccctg	aatccctcta	300
tagtgacaac	tccaatggca	gcttccagtc	cctgacccaa	ggctgtccca	cctacttccc	360
accatccccc	actggctccc	tcacccaaga	cccggctcgc	tcctttggga	gcattccacc	420
cagcctgagt	gatgacggct	ccccttcttc	ctcatcttcc	tcgtcgtcat	cctcctcctc	480
cttctataat	gggagccccc	ctgggagtct	acaagtggcc	atggaggaca	gcagccgagt	540
gtcccccagc	aagagcacca	gcaacatcac	caagctgaat	ggcatggtgt	tactgtgtaa	600
agtgtgtggg	gacgttgcc	cgggcttcca	ctacggtgtg	ctcgctgcg	agggctgcaa	660
gggctttttc	cgtcggagca	tccagcagaa	catccagtac	aaaagggtgc	tgaagaatga	720
gaattgctcc	atcgtccgca	tcaatcgcaa	ccgctgccag	caatgtcgt	tcaagaagtg	780
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ccagtgcctc	ctggagactt	caccacccca	gcaccccacc	ccaggcccca	tgggcccctc	960
gccaccccct	gctcgggtcc	cctcacccct	ggtgggcttc	tcccagtttc	cacaacagct	1020
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ccccatcac	cgaacttccc	ctcctccctc	atttaaacca	ctctgtctcc	cccacaaccc	2280
tccctgggc	ctctgatttg	ttctgttcc	gtctcaaatc	caatagttca	cagctaaaaa	2340
aaaaaaaaa	aaaag					2355

## Homo sapiens insulin induced protein 1 (INSIG1) gene, complete cds.

agctcacagt	ggggtcgagg	agacacagca	caggcttctg	aaaggtgccc	tgtccattag	60
ggagcacc	atttacagat	gggtcatcct	tcagctcact	agtttcccag	cgcacgacag	120
tgggtagctt	ttttttttcc	tattataaac	aaatcttcga	tgtgactgcg	atgatctacg	180
gatgatctac	gtatctggtt	gtgtgatcct	caagcactta	tgcaagggtg	agtgtaaaca	240
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cgtgtacaat	gggttaacagg	cttgagagga	gtcagctggg	agagtggagg	cgagactgcc	360
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cagggtcccc	gggccaagcg	cggctactga	gagcacagcg	tcctccctca	gccctctgtc	660
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cagtgaacct	tgtgtcccag	catccaaccc	cacggggcgg	cacccactc	ccccctacag	4020
acattcattc	ctgcctcat	ccttggcatt	ttacttctct	tgggggaatg	ccattccttc	4080
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yy35b09.s1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:273209 3',  
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## Homo sapiens tumor rejection antigen (gp96) 1, mRNA (cDNA clone

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a						1381

Homo sapiens tumor suppressor deleted in oral cancer-related 1, mRNA (cDNA clone MGC:3779 IMAGE:3659410), complete cds.

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aaaaaaaaa	aaaaaaa					1397

Homo sapiens TNFR-related death receptor-6 (DR6) mRNA, complete cds.

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gctgaggaca	aactagaccg	gctattcgaa	attattggag	tcaagagcca	ggaagccagc	1920
cagacctcc	tggactctgt	ttatagccat	cttcttgacc	tgctgtag		1968

601848574F1. NIH\_MGC\_55 Homo sapiens cDNA clone IMAGE:4079202 5', mRNA sequence.

acaatggtat	agatttcaca	acacaaaaag	gacattgggtg	gatgttactg	cacatttttaa	60
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tgatcattta	gcattcaatg	atggaacagc	tggtataaca	taagtggtcg	gcatgaaata	240
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ggcatcataa	cagatgactt	gtgctaagtt	caatagagtt	accacatctt	ttactattat	600
gcaaaaatat	taactttaat	gaaccattgc	ttggacatga	tttcctatac	attaccattg	660
ggccgaatgt	gttggtcata	ctatcacgca	ctaaacctgg	gtgtttacac	tgggcaccgc	720
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Homo sapiens clone. PP1722 unknown mRNA.

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acacgaaacc	at ttat tttt	catttcacaa	tg tttattca	catatatggg	attagttatc	180
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Homo sapiens hypothetical protein FLJ11259, mRNA (cDNA clone MGC:8787.  
IMAGE:3925141), complete cds.

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tgggcaacag	agtgaagccc	tgtctcaaaa	ataataaat	aaataaatga	ataaagagaa	2340
tgctaatacca	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		2388

tq65c10.x1 NCI\_CGAP\_Lu19 Homo sapiens cDNA clone IMAGE:2213682 3' similar  
to SW:ENPL\_HUMAN P14625 ENDOPLASMIN PRECURSOR ;, mRNA sequence.

```

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gtttatgaac tgtgaatatt tttttgacga gatttttaat tgtatccaat tcaaggtaat      180
cagatgcttc ttcttttaag acaagggtaa ttgtcggtcc ccgtccctaga gtgtttcctc      240
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tctcaccccn c

```

Homo sapiens phosphoserine aminotransferase (PSA) mRNA, complete cds.

```

ccttggctga ctcaccgccc tgcgcgcgc accatggacg cccccaggca ggtggtaaac      60
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tataagggtg tttttctgca aggagtgagg tgcggccagt tcagtgtgtt ccccttaaac      300
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Homo sapiens cDNA clone:ADBAPE04, 5'end, expressed in human adrenal gland.

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wd68f02.x1 NCI\_CGAP\_Lu24 Homo sapiens cDNA clone IMAGE:2336763 3', mRNA  
sequence.

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H.sapiens LU gene for Lutheran blood group glycoprotein.

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tc						2402

Homo sapiens mRNA for calmegin, complete cds.

cgccggcggg	actggtctga	agagacgcgg	ggacaaaagt	gcaacgactt	ggacatctga	60
gctgtcactg	cgcgaaaacag	gccgcaagag	agataatcaa	tatgcatttc	caagcctttt	120
ggctatgttt	gggtcttctg	ttcatctcaa	ttaatgcaga	atztatggat	gatgatgttg	180
agacggaaga	ctttgaagaa	aattcagaag	aaattgatgt	taatgaaagt	gaactttcct	240
cagagattaa	atataagaca	cctcaaccta	taggagaagt	atattttgca	gaaacttttg	300
atagtggag	gttggctgga	tgggtcttat	caaaagcaaa	gaaagatgac	atggatgagg	360
aaatttcaat	atagcatgga	agatgggaaa	ttgaagagtt	gaaagaaaaac	caggtaacctg	420
gtgacagagg	actggtatta	aaatctagag	caaagcatca	tgcaatatct	gctgtattag	480
caaaaccatt	catttttgct	gataaaacct	tgatagttca	atatgaagta	aattttcaag	540
atggtattga	ttgtggaggt	gcatacatta	aactcctagc	agacactgat	gatttgattc	600
tggaaaactt	ttatgataaa	acatcctata	tcattatgtt	tggaccagat	aatgtggag	660
aagattataa	acttcatttt	atcttcagac	ataaacatcc	caaaactgga	gttttcgaag	720
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atctttatac	ccttgtgatg	aatccagatg	acacatttga	ggtgttagtt	gatcaaacag	840
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ttgaagatcc	caatgataaa	aaacctgagg	aatgggatga	aagagcaaaa	attcctgatc	960
cttctgccgt	caaaccagaa	gactgggatg	aaagtgaacc	tgcccaata	gaagattcaa	1020
gtgttgtaa	acctgctggc	tggcttgatg	atgaaccaa	atztatccct	gatoctaattg	1080
ctgaaaaac	tgatgactgg	aatgaagaca	cggatggaga	atgggaggca	cctcagattc	1140
ttaatccagc	atgtcggatt	gggtgtggtg	agtggaaacc	tcccatgata	gataacccaa	1200
aatacaaaag	agtatggaga	cctccactgg	tcgataatcc	taactatcag	ggaatctgga	1260
gtcctcgaaa	aattcctaatt	ccagattatt	tcgaagatga	tcattccattt	cttctgactt	1320
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ttattatctg	ttcggaag	gaagtagcag	atcactgggc	tcagatggt	tggagatgga	1440
aaataatgat	agcaaatgct	aataagcctg	gtgtattaaa	acagttaattg	gcagctgctg	1500
aagggcaccc	atggcttttg	ttgatttatc	ttgtgacagc	aggagtgcc	atagcattaa	1560
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aagcagatga	gagcacagga	tctggagatg	ggccgataaa	gtcagtacgc	aaaagaagag	1920
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aaaaatcagc	atgccagacc	tgaactttaa	tcagtctgca	catcctgttt	ctaatatcta	2040
gcaacattat	attctttcag	acattttattt	tagtccttca	tttccgagga	aaaagaagca	2100
actttgaagt	tacctcatct	ttgaatttag	aataaaaagt	gcacattaca	tatcggatct	2160
aagagattaa	taccattaga	agttacacag	ttttagttgt	ttggagatag	ttttggtttg	2220
tacagaacaa	aataatatgt	agcagcttca	ttgctattgg	aaaaatcagt	tatttggaatt	2280
tccacttaaa	tggctataca	acaatataac	tggtagttct	ataataaaaa	tgagcatatg	2340
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agttgtttgc	ttaaattata	gattccttta	aggacatgcc	ttgttcataa	aatcactgga	2520
ttatattgca	gcataattta	catttgaata	caaggataat	gggttttatc	aaaacaaaat	2580
gatgtacaga	ttttttttca	agtttttata	gttgctttat	gccagagtgg	tttaccat	2640
tcacaaaatt	tcttatgcat	acattgctat	tgaaaataaa	atttaaatat	tttttcatcc	2700
tgaaaaaaa						2710

wx78h04.x1 NCI\_CGAP\_Ov38 Homo sapiens cDNA clone IMAGE:2549815 3', mRNA  
sequence.

agcaatttga	atcatttctt	gaaaaacaaa	cacagacaaa	caccaaacad	ggagttggtg	60
ccggcgccg	ggcataagg	cagcacccca	cgggtggtg	tgcggggggc	cgctgggtgt	120
ggccggggcc	tgtgtgcctg	tgcagggggc	cagctcctcg	gggactggcc	cacgaccccc	180
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gctgcccgcg	cccgcagggg	acatcgggga	aatgggggca	gagtgcggga	cccacacgct	300
gcctgaggag	tcttggcagg	gtggacaggc	ctgggggtct	ctaccagcaa	tgcaataaat	360
atgcaaatcc	aagcacagaa	agaccaagcg	cagacccac	gggcgcacga	ggcccagccc	420
agttcctgcg	ggcacgggca	ccaccggctc	ttcacagacc	aggagt		466

## Human CD9 antigen mRNA, complete cds.

cgcgcccccc	agtcccgcac	ccgttcggcc	caggctaagt	tagccctcac	catgccggtc	60
aaaggaggca	ccaagtgcac	caaatacctg	ctgttcggat	ttaaacttcat	cttctggctt	120
gcggggattg	ctgtccttgc	cattggacta	tggctccgat	tcgactctca	gaccaagagc	180
atcttcgagc	aagaaactaa	taataataat	tccagcttct	acacaggagt	ctatattctg	240
atcggagccg	gcgccctcat	gatgctggtg	ggcttcctgg	gctgctgcgg	ggctgtgcag	300
gagtccagc	gcctgctggg	actgttcttc	ggcttcctct	tggtgatatt	cgccattgaa	360
atagctgcgg	ccatctgggg	atattcccac	aaggatgagg	tgattaagga	agtccaggag	420
ttttacaagg	acacctacaa	caagctgaaa	accaaggatg	agccccagcg	ggaaacgctg	480
aaagccatcc	actatgcgtt	gaactgctgt	ggtttggctg	ggggcggtga	acagtttatc	540
tcagacatct	gccccaaaga	ggacgtactc	gaaaccttca	ccgtgaagtc	ctgtcctgat	600
gccatcaaag	aggtcttcga	caataaatcc	cacatcatcg	gcgcagtggt	catcggcatt	660
gccgtggtca	tgatatttgg	catgatcttc	agtatgatct	tgtgctgtgc	tatccgcagg	720
aaccgcgaga	tggtctagag	tcagcttaca	tccctgagca	ggaaagttaa	cccattgaaga	780
ttggctgggat	tttttggttg	tttggttgtg	tttggttgtg	gtttgttgtg	tggttttttg	840
ccactaatat	tagtattcat	tctgcattgc	tagataaaag	ctgaagttac	tttatgtttg	900
tcttttaaat	cttcattcaa	tattgacatt	tgtagttgag	cgggggggtt	gggtttgctg	960
gtttatatat	ttcagttgtt	tggttttgct	tggttatatta	agcagaaatc	ctgcaatgaa	1020
aggtactata	tttgctagac	tctagacaag	atattgtaca	taaaagaatt	tttttgtctt	1080
taaataagata	caaatgtcta	tcaacttta	tcaagttgta	acttatattg	aagacaattt	1140
gatacataat	aaaaaattat	gacaatgaaa	aaaaaaaaaa	aaaaaaaaaa	gg	1192

Homo sapiens cDNA clone:HEMBA1001328, 3' end, expressed in whole embryo,

gtagccttta	tttacttaaa	catttatttg	cttctaggaa	ataagcgctt	tcctaatttc	60
aagcaattat	aaaagaactg	ctgttttctt	ccacactcac	ttgccagagg	gtcgaattgg	120
aagtacacata	tatgtctatg	aacggaagtt	aaaaggga	ttcaacatga	agatgaaatt	180
ctgaactttc	ctagataaat	taacattgct	gggtggaaat	attcagatgc	tgcttaataa	240
cttcggtaaa	cactgggtaa	gattcatgga	acttagaaaa	aagctgtatg	aactgcttta	300
ccaaatatca	ctactgagga	aatgtataaa	ataccacata	gtataaaatt	acatgttaat	360
ccaatgccag	attttaaata	aaggacctta	agttttctc	aagggggaag	tttaatgggt	420
cnttcccgnt	ntcanagggc	caaaaanttc	ccaaggaaac	caggtagnaa	gctcttnaaa	480
ggccgcaaaa	t					491

Homo sapiens 7-dehydrocholesterol reductase, mRNA (cDNA clone MGC:1760 IMAGE:3507516), complete cds.

gtggagcagc	gcgcgcaagc	gaggccaggg	gaaggtgggc	gcaggacttt	agccgggtga	60
gaaggatcaa	gcaggcattt	ggagcacagg	tgtctagaaa	cttttaaggg	gccgggtcaa	120
gaaggaaaag	ttcccttctg	ctgtgaaact	atctggcaag	aggctggagg	gccaatggc	180
tgcaaaatcg	caacccaaca	ttcccaaagc	caagagtcta	gatggcgtca	ccaatgacag	240
aaccgcactc	caagggcagt	ggggccgtgc	ctgggagggtg	gactggtttt	cactggcgag	300
cgatcatcttc	ctactgctgt	tcgccccctt	catcgtctac	tacttcatca	tggtttgtga	360
ccagtacagc	tgccgccctga	ccggccctgt	ggtggacatc	gtcactggac	atgctcggct	420
ctcggacatc	tgggccaaga	ctccacctat	aacgaggaaa	gccgccagc	tctatacctt	480
gtgggtcacc	ttccagggtgc	ttctgtacac	gtctctccct	gacttctgcc	ataagtttct	540
accgggttac	gtaggaggca	tccaggaggg	ggccgtgact	cctgcagggg	ttgtgaacaa	600
gtatcagatc	aacggcctgc	aagcctggct	cctcacgcac	ctgctctggg	ttgcaaacgc	660
tcatctcctg	tcctggttct	cgcccaccat	catctctcgac	aactggatcc	cactgctgtg	720
gtgcgccaac	atccttggct	atgccgtctc	caccttcgcc	atgggtcaagg	gctacttctt	780
ccccaccagc	gccagagact	gcaaattcac	aggcaatttc	ttttacaact	acatgatggg	840
catcgagttt	aaccctcgga	tcgggaagtg	gtttgacttc	aagctgttct	tcaatgggcg	900
ccccgggatc	gtgccttggg	ccctcatcaa	cctgtccttc	gcagcgaagc	agcgggagct	960
ccacagccat	gtgaccaatg	ccatggctct	ggtcaacgtc	ctgcaggcca	tctacgtgat	1020
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cgggtggtac	ctgggctggg	gcgactgtgt	ctggctgcct	tatctttaca	cgctgcaggg	1140
tctgtacttg	gtgtaccacc	ccgtgcagct	gtccaccccg	cacgccgtgg	gcgtcctgct	1200
gctgggcctg	gtgggctact	acatcttccg	ggtggccaac	caccagaagg	acctgttccg	1260
ccgcacggat	gggcgtgccc	tcatctgggg	caggaaagccc	aagggtcatcg	agtgtcctta	1320
cacatccgcc	gacgggcaga	ggcaccacag	caagctgctg	gtgtcgggct	tctggggcgt	1380
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tggcggcggc	cacctgctgc	cctacttcta	catcatctac	atggccatcc	tgctgaccca	1500
ccgtgcctc	cgggacgagc	accgctgcgc	cagcaagtac	ggccgggact	gggagcgcta	1560
caccgcccga	gtgccttacc	gcctgctgcc	tggaaatctc	taagggcacg	ccctagggag	1620
aagccctgtg	gggctgtcaa	gagcgtgttc	tgccaggctc	atgggggctg	gcaccccagc	1680
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gggtgtccag	acctaatac	gcttttgctt	tcaagggaat	tccgagtgtc	cagcactgcc	1800
gtattgccag	cacagacgga	ttttctctaa	tcagtgtccc	tggggcagga	ggatgaccca	1860
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cttctgtctc	ctgctgcaca	gctgccagga	gtgctctgcc	tggagtctgc	agacctcaga	2220
gagggtccag	cactggctgt	ggcctttcag	gtgtaggcag	gtgggctctg	cttcccgaat	2280
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aggtctcagt	cccagcctcg	ggagggcacc	tccttttctg	tgctttcttc	cctgaggcat	2460

tcttctcat	ccctagggtg	ttgtgtagaa	ctcttttta	actctatgct	ccgagtagag	2520
ttcatcttta	tattaaactt	ccctgttca	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	2580
aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaa			2614

Homo sapiens squalene epoxidase (ERG1) mRNA, complete cds.

ctggtctgat	eggacttctc	gtcctgggac	acagtttact	ggagtctggc	cggtctccg	60
tgctcctctt	ggtacctcat	tttggggaga	accttaaac	cactegagca	gataatctcc	120
gccttgaccg	gtgccaccaa	agaagccttg	gaaccatgtg	gacttttctg	ggcattgcca	180
ctttcaccta	ttttataag	aagtcgggg	acttcacac	tttggccaac	agggaggtcc	240
tggtgtgctg	gctggtgttc	ctctcgctgg	gcctggtgct	ctcctaccgc	tgctcgccacc	300
gaaacggggg	tctcctcggg	cgccagcaga	gcggtccca	gttcgcccctc	ttctcggata	360
ttctctcagg	cctgccttct	attggcttct	tctgggcca	atccccccct	gaatcagaaa	420
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taataggaac	agctgctgtg	acatcaacat	cttctcagaa	tgaccagaa	gttatcatcg	540
tggtgagctg	cgtgcttggc	tctgcttgg	cagctgtgct	ttccagagat	ggaagaaagg	600
tgacagtcat	tgagagagac	ttaaaagagc	ctgacagaa	agttggagaa	ttcctgcagc	660
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ttaaaagaaa	tgattgttac	cataaattag	tgctaagtct	gaggagaact	acagtttttc	2160
ttttgaattt	agtatttgag	atgagtgtgt	gggacatgc			2199

Homo sapiens keratin 23 (histone deacetylase inducible), transcript variant 1, mRNA (cDNA clone MGC:26158 IMAGE:4838347), complete cds.

agggggaaat	cctgagcgca	ggccagggtt	gtttggtttt	gaggtgtgct	gggatgaaag	60
gcaccctgga	agtggaaagt	aaatgagcaa	tggaaaaact	tcacggcaag	attagaaaga	120
tacctgagcc	caataccgc	ctgatgtcgt	gggccacacc	tccgggttac	caggggaagg	180
gaggaagcaa	actgtcatat	tgatgtggct	ctaaacaaca	acagtgtgcg	aaggcccagg	240
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tgaagctgga	aagccgcatc	ctgaaatggc	accagcagag	agatcctggc	agtaagaaag	780
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tccgaaggac	cttagacaac	ctgaccattg	tcacaacaga	cctagaacag	gaggtggaag	1020
gaatgaggaa	agagctcatt	ctcatgaaga	agcaccatga	gcaggaaatg	gagaagcatc	1080
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ccactgtgca	gagcagacaa	ggtgacatcc	acgaactgaa	gcgcacattc	caggccctgg	1320
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cccagtctcg	gtactcctgc	aagctccagg	acatgcaaga	gatcatctcc	cactatgagg	1440
aggaaactgac	gcagctacgc	catgaactgg	agcggcagaa	caatgaatac	caagtgtctg	1500
tgggcatcaa	aaccacactg	gagaaggaaa	tcaccacgta	ccgacggctc	ctggagggag	1560
agagtgaagg	gacacgggaa	gaatcaaagt	cgagcatgaa	agtgtttgca	actccaaaga	1620
tcaaggccat	aaccaggag	accatcaacg	gaagattagt	tctttgtcaa	gtgaatgaaa	1680
tccaaaagca	cgcagagac	caatgaaagt	ttccgcctgt	tgtaaaatct	attttcccc	1740
aaggaaaagtc	cttgacacaga	caccagtgg	tgagttctaa	aagataccct	tggaattatc	1800
agactcagaa	acttttattt	ttttttctg	taactgtctc	accagacttc	tcataatgct	1860
cttaatatat	tgcacttttc	taatcaaagt	gcgagtttat	gagggtaaag	ctctactttc	1920
ctactgcagc	cttcagattc	tcatcatttt	gcactctatt	tgtagccaat	aaaactccgc	1980
actagcaaaa	aaaaaaaaaa	aa				2002



Homo sapiens translocon-associated protein gamma subunit mRNA, complete cds.

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cctttgcccg cttggcggcc ggcctctacgt tccctgttct cgccctgcagc tccgccatgg      60
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a

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Homo sapiens malic enzyme 1, NADP(+)-dependent, cytosolic, mRNA (cDNA clone MGC:39115 IMAGE:4870714), complete cds.

gtcaccgccag	cagcatccgc	cgccctgcacc	gcgcgtgcgg	cccgccccgg	cctgacccccg	60
ccgccgaacc	cgccgccagc	catggagccc	gaagcccccc	gtcgccgccca	cacccatcag	120
cgccggctacc	tgttgacacg	gaaccctcac	ctcaacaagg	acttggcctt	taccctggaa	180
gagagacagc	aattgaacat	tcatggattg	ttgccacctt	ccttcaacag	tcaggagatc	240
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aggttggaa	cttttataat	gattcataag	acacttagat	taagatttta	ctttaacagt	1920
ctaaaaattg	atagaagaat	atcgatataa	attgggataa	acatcacatg	agacaaaaaa	1980
aaaaaaaaaa	aa					1992

Homo sapiens livin inhibitor-of-apoptosis (LIVIN) mRNA, complete cds.

ccctgggata	ctccccctccc	agggtgtctg	gtggcaggcc	tgtgcctatc	cctgctgtcc	60
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Homo sapiens drebrin 1, transcript variant 1, mRNA (cDNA clone MGC:1517  
IMAGE:3356428), complete cds.

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aaaaaaaaa	aaa					2593

Homo sapiens MDS019 (MDS019) mRNA, complete cds.

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Human carnitine palmitoyltransferase I mRNA, nuclear gene encoding mitochondrial protein, complete cds.

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gtgccaggcg	gtcatcaaga	gttcctacca	ggtggccaag	gcgtggcag	acgacgtgga	1680
gttgtagctg	ttccagttcc	tgccttttgg	caaaggcctc	atcaagaagt	gccggaccag	1740
ccctgatgcc	tttgtgcaga	tgcgctgca	gctggctcac	ttccgggaca	ggggtaagtt	1800
ctgcctgacc	tatgaggcct	caatgaccag	aatgttccgg	gagggacgga	ctgagactgt	1860
gcgttcctgt	accagcgagt	ccacagcctt	tgtgcaggcc	atgatggagg	ggtcccacac	1920
aaaagcagac	ctgcgagatc	tcttccagaa	ggctgctaag	aagcaccaga	atatgtaccg	1980
cctggccatg	accggggcag	ggatcgacag	gcacctcttc	tgcttttact	tggtctccaa	2040
gtacctagga	gtcagctctc	ctttccttgc	tgaggtgctc	tcggaaccct	ggcgtctctc	2100
caccagccag	atcccccaat	cccagatccg	catgttcgac	ccagagcagc	accccaatca	2160
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gaggccctcc	ccctccccca	gctcagacca	cagaggtggc	aagagaaggg	ctgaagctgg	2460
aagactgttc	atgagggaact	tgtgtgacct	gctttgaaat	gtgtgactct	gctgagtgc	2520
gtaggctctg	agatagctgt	ccacgcccac	gtgtttgctt	ggaataaata	cttgcc	2576

Homo sapiens prostate differentiation factor mRNA, complete cds.

```

agcgtttaa cttagcttg gagttatttc caccatgcc gggcaagaac tcaggacgct      60
gaatggctct cagatgctcc tgggtgtgct ggtgctctcg tggctgccgc atgggggcgc      120
cctgtctctg gcgaggcga gccgcgcaag tttcccgga ccctcagagt tgcactccga      180
agactccaga ttccgagagt tgcggaaacg ctacaggac ctgctaacca ggctgcgggc      240
caaccagagc tgggaagatt cgaacaccga cctcgtcccg gcccctgcag tccggatact      300
cacgccagaa gtgcggtgg gatccggcg ccacctgcac ctgcgtatct ctcgggccgc      360
ccttcctgag gggctcccg aggcctcccg ccttcaccgg gctctgttcc ggctgtcccc      420
gacggcgtca aggtcgtggg acgtgacacg accgctgcgg cgtcagctca gccttgcaag      480
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cagggggcgc cgcagagcgc gtgcgcgcaa cggggaccac tgtccgctcg ggcccgggcg      660
ttgctgccgt ctgcacacgg tccgcgcgtc gctggaagac ctgggctggg ccgattgggt      720
gctgtcggca cgggaggtgc aagtgaccat gtgcatcggc gcgtgccga gccagttccg      780
ggcgcaaac atgcacgcgc agatcaagac gagcctgcac cgcctgaagc ccgacacggg      840
gccagcgccc tgcgtcgtgc ccgccagcta caatccatg gtgctcatc aaaagaccga      900
caccggggtg tcgtccaga cctatgatga cttgtagcc aaagactgcc actgcatag      960
aactagtact aagccgaatt ctgcagatat cc                               992

```

## Homo sapiens amphiphysin II mRNA, complete cds.

```

ccgggagagg cctgcgcgcg gatggcagag atgggcagta aaggggtgac ggccgggaaag      60
atcgccagca acgtgcagaa gaagctcacc cgcgcgcagg agaaggttct ccagaagctg      120
gggaaggcag atgagaccaa ggatgagcag tttagcagtg gcgtccagaa tttcaacaag      180
cagctgacgg agggcaccgg gctgcagaag gatctccgga cctacctggc ctccgtcaaa      240
gccatgcacg aggttcccaa gaagctgaat gagtgtctgc aggaggtgta tgagcccgat      300
tggcccgga gggatgaggc aaacaagatc gcagagaaca acgacctgct gtggatggat      360
taccaccaga agctgggtga ccaggcgctg ctgacctagg acacgtacct gggccagttc      420
cccgacatca agtcacgcac tgccaagcgg gggcgcaagc tgggtggacta cgacagtgcc      480
cggcaccact acgagtccct tcaaaactgcc aaaaagaagg atgaagccaa aattgccaa      540
cctgtctcgc tgcctgagaa agccgcccc cagtgggtgcc aaggcaaact gcaggctcat      600
ctcgtagctc aaactaacct gctccgaaat caggccgagg aggagctcat caaagcccag      660
aaggtgtttg aggagatgaa tgtggatctg caggaggagc tgccgtccct gtggaacagc      720
cgcgtaggtt tctacgtcaa caggttccag agcatcgagg gcctggagga aaacttccac      780
aaggagatga gcaagctcaa ccagaacctc aatgatgtgc tggtcggcct ggagaagcaa      840
caggggagca acaccttcac ggtcaaggcc cagcccagtg acaacgcgcc tgcaaaaagg      900
aacaagagcc cttcgcctcc agatggctcc cctgccgcca ccccgagat cagagtcaac      960
cacgagccag agccggccgg cggggccacg cccggggcca ccctcccaa gtcccatct      1020
cagctcggga aaggcccacc agtccctccg cctcccaaac acacccgctc caaggaagtc      1080
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ccccaggagc caggggagac ggcggcaagt gaagcagcct ccagctctct tcctgctgtc      1500
gtggtggaga ccttcccagc aactgtgaat ggcaccgtgg agggcggcag tggggccggg      1560
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aacctgaag agcaggatga aggtggctc atgggcgtga aggagagcga ctggaaccag      1740
cacaaggagc tggagaagtg ccgtggcgtc ttccccgaga acttactga gagggccccca      1800
tgacggcggg gccaggcag cctccgggcg tgtgaagaac acctcctccc gaaaaatgtg      1860
tgggtctttt ttttgttttg ttttcgtttt tcatcttttg aagagcaaag ggaaatcaag      1920
aggagacccc caggcagagg ggcgttctcc caaagattag gtcgttttcc aaagagccgc      1980
gtcccggcaa gtccggcg

```



602149641F1 NIH\_MGC\_81 Homo sapiens cDNA clone IMAGE:4290707 5', mRNA sequence.

ggcttctggc	aatgtagatt	tagttgacgc	tcccaaaagt	gcatgagaca	catgctaaaa	60
ttacaaatta	aaatttgggt	cagacttgcc	ataatgatag	actcaattta	gctctctgaa	120
ctagtggtaa	tttttttttt	tttaattccc	acttgggcgt	tgggtgtacat	tcaaataaaa	180
tgagaagtgt	gtatgctgac	caaaccacaa	gaaactttct	ttaagtgggtg	ttaaagagga	240
aagacctaga	atccaagcgg	tggtacattg	aaaatggtaa	cagagcagcg	tgcttccacc	300
tttcagatat	agatgtggga	accacagcag	aagttataga	gcgacaactt	atatacacac	360
ctagaaggta	agttaaacia	aataccggct	tccagagacc	ccttttctcc	agccatatta	420
catcaggcta	gaagtaatta	aggtggattt	atttcattct	caagcagttg	gtccctaagt	480
gaaaggctct	gttgaaaaac	aaaacggacc	aaacagtggt	gggaaaaatt	tccatgtgct	540
tctgtgaagc	ttatgtggta	cacgtgggccc	atttctaata	ttctctgggg	ggagcggcca	600
cagacctgtg	ttcggttgaa	cctcttaatt	cctgagtcct	taccaatata	gttctctggg	660
gcgcggggaa	cgcttggat	atgccaggtc	agaaaggggg	ctcgatatgg	gttgcccagt	720
tctctggggc	ccttgctttg	aaacacccct	catttttgc			759

Human global transcription activator homologous, sequence mRNA, complete cds.

caagactgga	agcagagaga	gagagcaaga	gtgagagaga	gcgagcgagc	gtagttagga	60
gatggtgttg	tattccagga	gaaaaacggt	tcttcatttc	aactcaaat	tgctgctaaa	120
gcgcctaaat	ctgaaaagga	aatggaccca	gaatatgaag	agaaaatgaa	agccgaccga	180
gcaaaagagat	ttgaattttt	actgaagcag	acagaacttt	ttgcacattt	cattcagcct	240
tcagcacaga	aatctccaac	atctccactg	aacatgaaat	tgggacgtcc	ccgaataaag	300
aaagatgaaa	agcagagcct	aatttctgct	ggagactacc	gccataggcg	cacagagcaa	360
gaagaagatg	aagagctact	gtctgagagt	cggaaaacat	ctaagtgtgt	tattagattt	420
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aattaaaatg	ttttgaggag	aaagaaaaaa	aaaa			3634

tb60a01.x1 NCI\_CGAP\_Br15 Homo sapiens cDNA clone IMAGE:2058696 3' similar  
to gb:M84739 CALRETICULIN PRECURSOR (HUMAN);, mRNA sequence.

```
tatacggctg cgagaagacg acagaagggg acagaggcaa gaaaagatgt tgatcaagaa      60
agatgagaac caggggtgag ggctgaagga gaatcaaaga taaaatacca gtttaaaaaa      120
aaaaaaaaa aaaaaaaagt cgtatcga                                     148
```

tu04d02:x1 NCI\_CGAP\_Pr28 Homo sapiens cDNA clone IMAGE:2250051 3', mRNA  
sequence.

tttttacaag	ggggaaaatt	atgtatttat	ttacacaaat	atgcacagaa	cacttgtatc	60
tttcaaaagt	cacacttaag	acatagtaaa	agcatgttgt	atgaaccatg	tattcttaag	120
gattgagcaa	actgcaggct	gcttgctgcc	ttttagggtt	gctagtcctt	gatctacttg	180
aaacagatgt	tgcttgcccc	aacactagtt	taattataag	ggcagcctgt	gagaaagttt	240
caatagacat	ttttctcacc	tatattgcac	gtttttctga	agcccttggg	caagtgtgtg	300
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agtaaaacta	taaagcacct	ttaggtttgc	accagttatt	acagaaatgg	ggatttgtga	480
aaaggatgta	at ttgatgta	gaagggcaaa	gtcctttaat	gactggcatt	caagaggatt	540
acttaaaaca						550

Homo sapiens mRNA for KIAA0895 protein, partial cds.

ccagtagcta	cgggctgggtg	gaagcgctgc	tcacagtcag	tgtcggtagc	tcttcgtccg	60
cccttaacct	ccttatcctg	ctccaggtag	cggagagccg	cctcccgcgc	cgcccccgcc	120
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actggttagat	atactactgtg	aagcctgggt	cacatttcag	ctagaaaatg	attttgggaa	2940
atcttttata	ggagagggtta	catgattttt	ctctttcaca	tatctagaag	gacttgcttc	3000
aaagaagaat	gttgacagcaa	acaggatata	ctctagctgg	tgcccaaagg	ttcttgcaaa	3060
accatgaatc	ttgcttttag	cagtaaaggg	ccagacactt	tggagcattg	aaaggcctta	3120
gccctgctc	cccaactacg	tgccatgctg	ggtagtgtgt	atcctgtaca	tctgtgtgcc	3180
aggctggggc	agactgtgcc	aatgctcacc	aaacactaga	atctgctctt	acacctctag	3240

catgtatctc	gttgtagcag	agttgtgcac	tttctcagca	ttgtgtagtg	ttttctaatt	3300
gcatctaaaa	acttatcaaa	agtgattgtg	aaaacagtgt	cttagaagta	taaacagaaa	3360
tggcaatatt	tatgtcctgt	gattcaagcc	caaagggtat	aaattcaact	ttcacaggga	3420
atagcactgc	taatcttact	ttatgattta	aatataaagg	aaaatcacag	cagccttaat	3480
ttcctgttgg	tggatcatt	tgcagcagtt	ctagttcctg	acttttaaaa	tggatgaaat	3540
tttctctttg	tctgatttgg	aaaaggaact	gcttttttgc	cttactgctt	tgggtataagg	3600
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taaaagttag	cagtgaacca	aaagtagttt	cagattagca	gaaataaaga	gctttaagtt	3720
ttaaaagttg	agattgaata	tttaatgaaa	gtttattaat	tctttttcca	ggaatagcag	3780
taaggtcagt	ttttttccct	aaaataaaaa	gttttaataa	acagaaaatt	atagcaacag	3840
tacttaggag	aatagttgaa	gattgtatta	attttaatta	taatagttat	ttgtcatagg	3900
ctattgatga	ttagaatttc	attagttttg	tccactataa	ttttaaaaaat	agttgtgtca	3960
aatacaaatt	ctggtaaact	gttaggtttt	aacaccagac	agtattcaaa	ggaaattaat	4020
gtttgcaaac	ataaatccat	agtcttcatt	tctttatatt	gtcacctttg	taaaagtggt	4080
taaaatttgt	attgtttgtt	ttgtatatct	ttgggcatct	tgtgtctagc	tataataaaa	4140
agaaacggtg	ccaag					4155

Homo sapiens NUCB2 protein (NUCB2) mRNA, complete cds.

```

caggtttgtg cgctggacgc aagcaccagg cgcagcctcg ctgcgccgaga cccggccaga      60
acgtgttacg agtcagtttt tagtgaaaaa acattgagct aggagccaag acccatctct      120
tcactatttt ggtattgtgc aagtcattctt acctctctgg atctcagttg tctcatctgt      180
aaaaaggaga taaaaattat ttacctgcct gaacatgagg tggaggacca tctgtctaca      240
gtattgcttt ctcttgatta catgtttact tactgctctt gaagctgtgc ctattgacat      300
agacaagaca aaagtacaaa atattcaccg tgtggaaagt gcgaagatag aaccaccaga      360
tactggactt tattatgatg aatatctcaa gcaagtgatt gatgtgctgg aaacagataa      420
acacttcaga gaaaagctcc agaaagcaga catagaggaa ataaagagtg ggaggctaag      480
caaagaactg gatttagtaa gtcaccatgt gaggacaaaa cttgatgaac tgaaaaggca      540
agaagtagga aggttaagaa tgtaattaa agctaagttg gattcccttc aagatatagg      600
catggaccac caagctcttc taaaacaatt tgatcaccta aaccacctga atcctgacaa      660
gtttgaatcc acagatttag atatgcta ataaagcggc acaagtgatc tggaacacta      720
tgacaagact cgtcatgaag aatttaaaaa atatgaaatg atgaaggaa atgaaaggag      780
agaatattta aaaacattga atgaagaaaa gagaaaagaa gaagagtcta aatttgaaga      840
aatgaagaaa aagcatgaaa atcacccctaa agttaatcac ccaggaagca aagatcaact      900
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atttactaaa gagttggaga aagtaatatga ccctaaaaat gaagaggatg atatggtaga     1080
aatggaagaa gaaaggctta gaatgagagg acatgtaatg aatgagggtg atactaacia     1140
agacagattg gtgactctgg aggagttttt gaaagccaca gaaaaaaaag aattcttgga     1200
gccagatagc tgggagacat tagatcagca acagttcttc acagaggaag aactaaaaga     1260
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gaaacaaaaa gaagagctac aacgtcagca tgatcaactg gaggctcaga agctggaata     1380
tcatcaggtc atacagcaga tggaacaaaa aaaattacaa ggaattcctc catcagggcc     1440
agctggagaa ttgaagtttg agccacacat ttaaagtctg aagtccacca gaacttggaa     1500
gaaa

```

Homo sapiens glucose-6-phosphate dehydrogenase, mRNA (cDNA clone MGC:8534 IMAGE:2822640), complete cds.

cacttcgggg	ctgagagcgc	ggagggcgac	gacgacgaag	cgagacagc	gtcatggcag	60
agcaggtggc	cctgagccgg	acccaggtgt	gcgggatcct	gcgggaagag	-cttttccagg	120
gcgatgcctt	ccatcagtcg	gatacacaca	tattcatcat	catgggtgca	tccgggtgacc	180
tggccaagaa	gaagatctac	cccaccatct	ggtggctgtt	ccgggatggc	cttctgcccc	240
aaaacacctt	catcgtgggc	tatgcccgtt	cccgcctcac	agtggctgac	atccgcaaac	300
agagtgaacc	cttcttcaag	gccaccccag	aggagaagct	caagctggag	gacttctttg	360
cccgcaactc	ctatgtggct	ggccagtacg	atggatgcagc	ctcctaccag	cgccctcaaca	420
gccacatgaa	tgcctccac	ctgggggtcac	aggccaaccg	cctcttctac	ctggccttgc	480
ccccgaccgt	ctacgagggc	gtcaccaaga	acattcacga	gtcctgcatg	agccagatag	540
gctggaaccg	catcatcgtg	gagaagccct	tccgggagga	cctgcagagc	tctgaccggc	600
tgtccaacca	catctcctcc	ctgttccgtg	aggaccagat	ctaccgcac	gaccactacc	660
tgggcaagga	gatggtgcag	aacctcatgg	tgtgagatt	tggcaacagg	atcttcggcc	720
ccatctggaa	ccgggacaac	atcgccctgc	ttatcctcac	cttcaaggag	ccctttggca	780
ctgaggggtc	cgggggctat	tccgatgaat	ttgggatcat	ccgggacgtg	atgcagaacc	840
acctactgca	gatgctgtgt	ctgggtggcca	tggagaagcc	cgccctccacc	aaactcagatg	900
acgtccgtga	tgagaaggtc	aaggtgttga	aatgcacctc	agaggtgcag	gccaacaatg	960
tggctcctgg	ccagtacgtg	gggaacccc	atggagaggg	cgaggccacc	aaaggggtacc	1020
tggacgaccc	cacggtgccc	cgcggtgcca	ccaccgccac	ttttgcagcc	gtcgtcctct	1080
atgtggagaa	tgagaggtgg	gatgggggtgc	ccttcacctc	gcgctgcggc	aagggccctga	1140
acgagcgcaa	ggccgaggtg	aggctgcagt	tccatgatgt	ggccggcgac	atcttcacc	1200
agcagtgcaa	gcgcaacgag	ctgggtgatcc	gcgtgcagcc	caacgaggcc	gtgtacacca	1260
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gtattttcac	cccactgctg	caccagattg	agctggagaa	gcccgaagccc	atcccctata	1500
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caacagaag	aaggaggagg	gcgcccattc	gtctgtccca	gagcttattg	gccactgggt	1920
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ttgtcaccag	caacatctcg	agccccctgg	atgtcccctg	tcccaccaac	tctgcactcc	2100
atggccaccc	cgtgccaccc	gtaggcagcc	tctctgctat	aagaaaagca	gacgcagcag	2160
ctgggacccc	tcccacctc	aatgccctgc	cattaaatcc	gcaaacagcc	aaaaaaaaaa	2220
aaaaaaaaaa						2230



## Homo sapiens zinc finger protein 165 (Zpf165) mRNA, complete cds.

ggccccggat	ccgcgcgggt	ttggggatcc	anatgtccag	ccccgtgtcc	ccctccaaac	60
atccagtcct	tctcatattg	cctttgaaat	tagcagcctc	tgggtgacca	gaccttggcc	120
ctcagaggaa	tcccgganaa	aggtanaacc	agcttcgcgt	tgggaacgca	ggcgcgctta	180
cgcatttagt	gagggttttg	cgtctccat	anttaccgcc	gccgcgcgtg	acntcatant	240
ggagcgctga	gggcttggtg	gcgtgggggtg	ggggctgtcc	tactgatcct	gaatttgggt	300
cactggtaan	angagttgcc	cattccancc	aggtggaacg	gggaggggta	gccacatgtc	360
tcagatctgc	cattgtctgc	gaaaagaaac	tgctgcgagg	accatcccca	atccccctgt	420
tcccttgga	agagtaaccg	ccgttttgta	ggacacttgg	ggacaacccc	gcttgtcctg	480
aaattttattg	acacggtaaa	tagtatttcc	tgtgtgccga	ggatgcagtt	aaaccaacac	540
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aactctccag	aggatgaagg	acttctgata	gtgaagatag	aagaggaaga	atttatccat	660
gggcaggaca	cttgcttaca	gagaagtga	ctccttaagc	aggagctctg	caggcagctt	720
tttaggcagt	tctgctacca	ggattctcct	ggacctcgcg	aggcactgag	ccgcctccgg	780
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ctggttgctga	agcagttcct	gaccatcctg	ccaggagatt	tcagggcctg	ggtacatgaa	900
cattaccocag	agagtggaga	ggaggcagtg	accatactag	aagatttggg	gagaggcact	960
gatgaagcag	tactccaggt	tcaagcccat	gaacatggac	aagaaatatt	ccagaaaaaa	1020
gtgtcacctc	ctggaccagc	acttaatgtc	aagttacagc	cagtggagac	caaggcccat	1080
tttgattcat	cagaacccca	gctcctatgg	gactgtgata	atgagagtga	aaacagtaga	1140
tccatgccaa	agctggaaat	ttttgaaaaa	attgaatcac	agagaattat	atctggaaga	1200
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agggtaaaga	gacaatggga	aaaagaatca	ggggagtctc	agagactctc	gtctgcccag	1320
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cacgatggat	gtgagaggag	attaaatctg	aactcaaagt	aattcacaca	ccagaaatct	1440
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aagtaaatgc	tgaggaaatg	gcacaatatg	aaaaatatta	aataaaaaat	aaatattggg	2100
caagtggag	actgaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		2150

602326096F1 NIH\_MGC\_90 Homo sapiens cDNA clone IMAGE:4414319 5', Mrna

tatctgttca	atgaaaataa	ggtatgaccc	aagtttttac	ctagtctgac	tagaagtatt	60
ccaacttcaag	gtctgaagta	ggactttttac	cttaaaaaaac	aacaacaaac	aaaactatca	120
cacaggatag	ataagaagat	tggttaaaca	gttttgtgta	gatctttttg	gtgctgaact	180
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aatacctttg	aaataaaagt	ttagagaaat	gtttcagaaa	aaaaaatata	atacatgtag	720
atacgagaca	aaaaaaaaaa	aaaatgaaaa	aaaataaaaa	aaaaagagag	ggggacagat	780
atatattcag	gggagagaaa	aaagacagat	tatagaaagg	cccaaaataa	aaaaagaaga	840
aggggtataa	atcggaaaaa	tgtgtgtaag	acaactgtgg	agaaaaac		887

## Human prostaglandin endoperoxide synthase mRNA, complete cds.

gogccatgag	ccggagtcct	ttgctccggt	tcttgcctgt	cctgctcctg	ctcccgcgc	60
tcccgcct	gctcgcgac	ccaggggcgc	ccacgccagt	gaatccctgt	tggtactatc	120
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gggagtttgt	caatgccacc	ttcatccgag	agatgctcat	gcgctggta	ctcacagtgc	360
gtccaacct	tatccccagt	ccccccacct	acaactcagc	acatgactac	atcagctggg	420
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tcaccaaggc	cttgggccat	ggggtagacc	tgcgccacat	ttatggagac	aatctggagc	720
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cgcccagag	ccagatggct	gtgggcccagg	aggtgtttgg	gctgcttct	gggctcatgc	900
tgtatgccac	gctctggcta	cgtgagcaca	accgtgtgtg	tgacctgctg	aaggctgagc	960
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agctcgtagg	agagaaggag	atggcagcag	agttggagga	attgtatgga	gacattgatg	1500
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cagctgtttc	tcatgaagct	aataaaatcc	gcc			2554

## Human mRNA for tyrosine hydroxylase type 3

tccacactga	gccatgccca	ccccgcagcg	caccacgccca	caggccaagg	gcttccgcag	60
ggccgtgtct	gagctggacg	ccaagcaggc	agaggccatc	atgggcgccc	cggggcccag	120
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aaggtccccg	cggttcattg	ggcgcaggca	gagcctcatc	gaggacgccc	gcaaggagcg	240
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aatccaccat	ctagagaccc	ggcccgcgca	gaggccgcga	gctggggggc	cccacttgga	480
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ccaggtgtca	gaggacgtgc	gcagccccgc	ggggcccgaag	gtcccctggg	tcccaagaaa	600
agtgtcagag	ctggacaagt	gtcatcacct	ggtcaccaag	ttcgacctg	acctggactt	660
ggaccaccgg	ggcttctcgg	accaggtgta	ccgccagcgc	aggaagctga	ttgctgagat	720
cgcttccag	tacaggcacg	gcgaccgat	tcccgtgtg	gagtaacccg	ccgaggagat	780
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gggtcctggg	ggctgctgca	ctgccctccg	cccttccctg	acactgtctg	ctgccccaat	1860
caccgtcaca	ataaaagaaa	ctgtggtctc	t			1891

## Homo sapiens mRNA; cDNA DKFZp566A093 (from clone DKFZp566A093); complete

agtctgggtt	ggactggcgg	ccgtggagtt	tgtgacatac	gaggtgacac	ccctcgagtc	60
acttcccttc	aactccagct	ggagcgcttg	cttggctttg	ggttcgttct	gcagccttcg	120
ccccgtcctt	agcctcaggg	ccggactccg	gcgcagagcc	cagcccagcg	cagcctgcca	180
gcagccaccc	agccgccag	ccgccagcc	ccgcacgaaa	cccgccagga	gcttcttagc	240
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cacaatttct	ccatctcctt	cttctcttct	ctgcttggag	gggatgtggg	ttccgttaag	360
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gagcagatcc	gagagctggg	ggagaagaac	tcccagctag	agcgtgagaa	cacctgttg	540
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cagaaagctt	gtctgtagcg	ggttttgtga	gagtgaacac	tttccacttt	ttgacacctt	1860
atcctgatgt	atggttccag	gatttggatt	ttgattttcc	aaatgtagct	tgaaatttca	1920
ataaactttg	ctctgttttt	ctaaaaataa	aaaaaaaaaa	aaaaaaaa		1968

Homo sapiens mRNA for Id-1H, complete cds.

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ggccccacgt	gcgcgctgaa	ggccggcaag	acagcgagcg	gtgcgggcga	ggtgggtgcgc	120
tgtctgtctg	agcagagcgt	ggccatctcg	cgctgccggg	gcgcgggggc	gcgcctgcct	180
gccctgctgg	acgagcagca	ggtaaacgtg	ctgctctacg	acatgaacgg	ctgttactca	240
cgcctcaagg	agctggtgcc	caccctgccc	cagaaccgca	aggtgagcaa	ggtggagatt	300
ctccagcacg	tcatcgacta	catcagggac	cttcagttgg	agctgaactc	ggaatccgaa	360
gttggaaccc	ccgggggccc	agggctgccg	gtccgggctc	cgctcagcac	cctcaacggc	420
gagatcagcg	ccctgacggc	cgaggcggca	tgcgtccctg	cggacgatcg	catcttgtgt	480
cgctgaaggc	cttccccagg	gaccggcgg				509

Homo sapiens mRNA for KIAA1254 protein, partial cds.

cattggcgcc	cgagctgtga	ccgccgccac	tggggcagcc	agcacaatcg	ggcggaggtg	60
gcgctgcccc	ttcagacctg	aaagatgtct	gaaaattcca	gtgacagtga	ttcatcttgt	120
ggttggaact	tcatcagtca	tgagggttca	gatataaaaa	tggtgaattc	tgtgaccccc	180
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Homo sapiens cDNA clone:HEMBA1001328, 3' end, expressed in whole embryo,  
mainly head.

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ccaaatatca	ctactgagga	aatgtataaa	ataccacata	gtataaaaatt	acatgttaat	360
ccaatgccag	attttaaata	aaggacctta	agttttcttc	aagggggaag	tttaatgggt	420
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ggccgcacaaa	t					491

Homo sapiens mRNA; cDNA DKFZp564F1862 (from clone DKFZp564F1862); complete cds

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gaggtctctg aggtggtggc gccagcggct acctcctgcc tgtgaggagc tggctgagag      60
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aaaaaa

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Homo sapiens peroxisomal D3,D2-enoyl-CoA isomerase, mRNA (cDNA clone MGC:3558 IMAGE:3608151), complete cds.

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aaa						1383

Homo sapiens annexin A1, mRNA (cDNA clone MGC:5095 IMAGE:3459615), complete cds.

```

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aaccatcatt gacattctaa ctaagcgaaa caatgcacag cgtcaacaga tcaaagcagc 300
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aaaaaaaaa aaaaaaaaaa aaaaaaaa 1408

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Homo sapiens RTN2-A (RTN2) mRNA, complete cds.

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cgcgcacccc	gggcccagg	cggcacagcc	ggagtgggcg	gggggtcccga	tgcaggcccc	120
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aataaagact	cctgtggaaa	aaaaaaaaaa				2190

Homo sapiens kallikrein 8 (neuropsin/ovasin), transcript variant 1, mRNA  
(cDNA clone MGC:50513 IMAGE:5742016), complete cds.

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Human mRNA for KIAA0188 gene, partial cds.

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Homo sapiens 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble),  
mRNA (cDNA clone IMAGE:2819708), partial cds.

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ctcttcagtc	agaaaacaaa	ggcatcttta	cttgtatcaa	atcaaaatgg	aaatatgtac	1140
acatcttcag	tatatggttc	ccttgcacat	gttctagcac	agtactcacc	tcagcaatta	1200
gcaggggaaga	gaattggagt	gttttcttat	ggttctgggt	tggctgccac	tctgtactct	1260
cttaaagtca	cacaagatgc	tacaccgggg	tctgctcttg	ataaaaataac	agcaagttta	1320
tgtgatctta	aatcaaggct	tgattcaaga	actggtgtgg	caccagatgt	cttcgctgaa	1380
aacatgaagc	tcagagagga	cacctcatcat	ttggtcaact	atattcccca	gggttcaata	1440
gattcactct	ttgaaggaa	gtggtactta	gttaggggtg	atgaaaagca	cagaagaact	1500
tacgctcggc	gtcccactcc	aaatgatgac	actttggatg	aaggagtagg	acttgtgcac	1560
tcaaacatag	caactgagca	tattccaagc	cctgccaaaga	aagtaccaag	actccctgcc	1620
acagcagcag	aacctgaagc	agctgtcatt	agtaaatggg	aacattaaga	tactctgtga	1680
ggtgcaagac	ttcaggggtg	ggtgggcatg	gggtgggggt	atgggaacag	ttggaggaat	1740
gggatactcg	gggataattt	taaaggatta	catgttatgt	aaatttttat	gtgactgaca	1800
tggagcctgg	atgactatcg	tgtacttggg	aaagtctctt	tgctctattt	gctgacatgc	1860
ttcctgttgt	ggtctggcca	atgccaaatg	tactcgaatg	atgttaaggg	ctctgtaaaa	1920
cttcatacct	ctttggccat	ttgtatgcat	gatgtttggt	ttttaaacat	gggtataatga	1980
attgtgtact	tctgtcagaa	gaaagcagag	gtactaatct	ccaattaaaa	aattttttta	2040
catgtaaaaa	aaaaaaaaaa	aaaaaaaaaa				2068

Homo sapiens S100 calcium binding protein A14, mRNA (cDNA clone MGC:11012 IMAGE:3640899), complete cds.

```

agatcatgag ccacagctc ctctggggcc agctatagga caacagaact ctcaccaaag      60
gaccagacac agtgggcacc atgggacagt gtcggtcagc caacgcagag gatgctcagg      120
aattcagtga tgtggagagg gccattgaga ccctcatcaa gaactttcac cagtactccg      180
tgagggtgg gaaggagacg ctgaccctt ctgagctacg ggacctggc acccagcagc      240
tgcccatct catgccgagc aactgtggcc tggaagagaa aattgccaac ctgggcagct      300
gcaatgactc taaactggag ttcaggagtt tctgggagct gattggagaa gcggccaaga      360
gtgtgaagct ggagaggcct gtccgggggc actgagaact ccctctggaa ttcttggggg      420
gtgttgggga gagactgtgg gcctggaaat aaaacttgtc tcctctacaa aaaaaaaaaa      480
aaaaaaaaa                                     489

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Homo sapiens cDNA clone:ADBALE09, 5'end, expressed in human adrenal gland.

aaaatatcat	ggattgaacc	tcatcaattg	atagcagtga	gtgactgaag	cttccaaatc	60
aagaaaagcc	ggcaccaaga	acttccattc	taatctagag	ctgaccagtt	tgagctgatt	120
ctctctttga	agagtccttc	ttgattgcag	tgcagtactg	gcattttctga	atggatgtaa	180
gtggagtatt	ttagtctaaa	ggcttttcaa	attacttgaa	ttttttttaa	aattgaggag	240
ctttatttct	atttaccctt	ccatttttgt	atatcaaatt	tccattgtca	ttaaaaactg	300
tatcttgaaa	ctttgtgaac	tgacttgctg	tatttgact	ttgagctctt	gaaataaatg	360
tgatttttgt	gtgattaaaa	caaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	420
aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aactcgctcg	ggccgaattg	ggcacgagcc	480
accaccacc	tttggcacag	cccctttgtt	tttacaccaa	taccaagaat	taagggggaa	540
gccttggcag	ttttcacgtt	taaaccagac	tcctttgccg	gaaccaacc	cgncaccctg	600
ctggcctccg	tc					612

as43b01.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2319913 3',  
mRNA sequence.

tttaaaaaac	aaactgcaaa	atgggtattta	tttacattaa	aacatgaatt	gcctgtatac	60
acacaaatat	aagaggaaca	atctgttatg	cacaataact	gtaatattta	gtacatgtta	120
tacacagcag	tatctgttaa	gtcagtgggt	tgagtgaaaa	cacagtacca	aaacattcct	180
gatacaaaat	aagttactca	ttcacatatt	ctaatacatc	aagacactta	atatttttaa	240
agttacatac	ttcaaataac	actggctaaa	tgtacaacta	aagtttatta	atttttttta	300
tgaaaagact	tcagattggt	attcataaat	gatccctttc	aggatgcatt	atctttttaa	360
taaataaaact	aaattgactt	caagactatt	tataaatagc	ccactaaaat	atgattgaag	420
acattccttc	attttattaa	gggtgtagcta	tatactagag	aatatgctca	actactgcct	480
ccaaatccaa	cactgtcatt	ctaattgcaa	atagaattta	ttaaattcca	cttcaggaca	540
tgagatgagc	tgcttgcctt	attttgtcaa	tggttccaaa	gcattaacgg	attaagagac	600
tgc						603

Homo sapiens drebrin 1, transcript variant 1, mRNA (cDNA clone MGC:1517 IMAGE:3356428), complete cds.

```

ccgaggcggc ggcggcgact ccctctttcc ctccctcctc ctccgtccgc ccgtccgtcc      60
gcgcgtctgt ccgttcggcc cggtcgggcc cgaagcatgg ccggcgtcag cttcagcggc      120
caccgcctgg agctgctggc ggcttacgag gaggtgatcc gagaggagag cgcggccgac      180
tggtgctctgt acacatatga agatggctcc gatgacctca agcttgacgc atcaggagaa      240
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gatgtgcctg atgcccgcga gtgcgcttgt gccagccacg tggctaaggt ggcagagttc      420
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cggctgcgag aggatgagaa cgcagagccc gtgggcacca cctaccagaa gacggatgca      600
gctgtggaaa tgaagcggat taaccgagag cagtctctgg agcaggccaa gaaggaagaa      660
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gagcggatgg agcaggagcg gcaggagcaa gaggagcgcg agcggcgcta ccgggagcgg      780
gagcagcaga tcgaggagca caggaggaaa cagcagactt tagaagcggg agaggccaaag      840
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atgaagaagt cagagtcgga ggtggaggag gcagcagcta ttattgcccc ggcgcctgac      960
aaccacaagg agttcttcaa gcagcaggaa agagtgcgat cggcctctgc ggcagctgt      1020
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caataaatgg ctcgtgggct ctggcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      2580
aaaaaaaaaa aaa                                     2593

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Homo sapiens potentially prenylated protein tyrosine phosphatase hPRL-3  
mRNA, complete cds.

aagagttggg	ttttcttttt	taattatcca	aacagtgggc	agcttcctcc	cccacaccca	60
agtatttgca	caatatttgt	gcggggtatg	gggggtgggt	tttaaatctc	gtttctcttg	120
gacaagcaca	gggatctcgt	tctcctcatt	ttttgggggt	gtgtggggac	ttctcaggtc	180
gtgtccccag	ccttctctgc	agtccttct	gccctgccgg	gcccgtcggg	aggcgccatg	240
gctcggatga	accgccccgc	cccggaggag	gtgagctaca	aacacatgcg	cttcctcatc	300
accacacaacc	ccaccaacgc	cacgctcagc	accttcattg	aggacctgaa	gaagtacggg	360
gctaccactg	tggtgcgtgt	gtgtgaagtg	acctatgaca	aaacgccgct	ggagaaggat	420
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gtgcactgcg	tggcgggcct	ggggcgggct	ccagtccttg	tggcgctggc	gcttattgag	600
agcgggatga	agtacgagga	cgccatccag	ttcatccgcc	agaagcgccg	cggacgcac	660
aacagcaagc	agctcaccta	cctggagaaa	taccggccca	aacagaggct	gcggttcaaa	720
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ccgtgcactt	gtgtccgagg	agcgaggagc	ccctcggcgc	cttgggtggc	ttctggggcc	960
tttctcctgt	ctccgtactc	cctctggcgg	cgtggcgtg	gctctg		1006

Homo sapiens cell cycle progression restoration 8 protein (CPR8) mRNA, complete cds.

gaattcgcaa	agatgctaaa	gagagaactg	gagagagAAC	gactagtaac	tacggcttta	60
aggggggaac	tccagcagtt	aagtggtagt	cagttacatg	gcaagtcaga	ttctcccaat	120
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aagctaacct	tcgaacagca	gcgttctgat	ttgtgggaaa	gattgtatgt	tgaggcaaaa	240
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aaaaaaaaa	aaaaaaaaa	aaaaaacctg	tcgaaaagcg	gccgccaccg	cgtgga	1856

Human channel-like integral membrane protein (CHIP28) mRNA, complete cds.

gcaccggca	gcgggtctcag	gccaaagcccc	ctgccagcat	ggccagcgag	ttcaagaaga	60
agctcttctg	gagggcagtg	gtggccgagt	tcctggccac	gaacctcttt	gtcttcatca	120
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agatcagcat	cttcctgtcc	ctcatgtaca	tcacgcacca	gtgcgtgggg	gccatcgctg	360
ccaccgccat	cctctcaggc	atcacctcct	ccctgactgg	gaactcgctt	ggccgcaatg	420
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ttttcctaac	atgcaccttg	ctcccaatgg	tgcttgaggg	gggaagagat	cccaggaggt	1320
gcagtggagg	gggcaagctt					1340



Homo sapiens STRA6 isoform 1 mRNA, complete cds, alternatively spliced.

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agtcccagac gggcttttcc cagagagcta aaagagaagg gccagagaat gtctgtcccag      60
ccagcagggg accagacctc ccccggggcc acagaggact actcctatgg cagctgggtac      120
atcgatgagc cccagggggg cgaggagctc cagccagagg gggaaagtgcc ctctgtccac      180
accagcatac caccgggctt gtaccacgcc tgcttggcct cgctgtcaat ccttgtgtctg      240
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cctgcaataa acttgttcct gagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     2700
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa                                     2732

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## Homo sapiens solute carrier family 7 (cationic amino acid transporter

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601440558F1 NIH\_MGC\_72 Homo sapiens cDNA clone IMAGE:3925214 5', mRNA sequence.

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## Human DNA for insulin-like growth factor II (IGF-2); exon 7 and additional ORF

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nac79g07.x1 NCI\_CGAP\_Brn23 Homo sapiens cDNA clone IMAGE:3440820 3', mRNA  
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Homo sapiens hypothetical protein MGC11256, mRNA (cDNA clone MGC:60219 IMAGE:6091291), complete cds.

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Homo sapiens cDNA clone IMAGE:3952627, partial cds.

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PT1.1\_07\_C06.r tumor1 Homo sapiens cDNA 5', mRNA sequence.

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Homo sapiens cDNA FLJ12940 fis, clone NT2RP2005038, weakly similar to DNA  
NUCLEOTIDYLEXOTRANSFERASE (EC 2.7.7.31).

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ccagcaccac	caggacctga	gcaccccagt	cctgcggtcc	gatgtagatg	ccctgcagca	960
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cctccacgtc	cccatatccc	ccaggcacac	tctggcctca	ggttttgccc	tggocatgtc	2460
atctacctgg	agtgggcctt	ccccttcttc	aggccttgaa	tcaaaagcca	ctttgttagg	2520
cgaggatttc	ccagaaccact	catcacatta	aaaaatattt	tg		2562

np60h03.s1 NCI\_CGAP\_Br2 Homo sapiens cDNA clone IMAGE:1130741 3', mRNA  
sequence.

atggtgttcc	ctgagcgggt	gctgcgggtg	atggatactc	ttctgatact	ggctcttcgt	60
gctataattt	cttttctcac	caagagcagg	tgccctttca	gaagggaaatg	ggagtggagg	120
gagggtcaca	gaaacacctc	ggcactgggg	gaaacgtggc	ctagcctctg	gcgacggcga	180
gcagcggccg	gaagcgacgg	gggctgcggg	ccggcgcggg	ttcagaggct	tctttttccg	240
cggacggaga	cactgtacag	cacaacctcg	ggaaaaacgcc	aacgccgacg	ccttctccaa	300
caaaagatgg	cctcggactc	aagagtgcgg	ctccagggca	atgcagcccc	aacctaaaga	360
tttagaggcc	tcccgtttcg	ctggccccca	gagccgcccc	ccgggactgc	acttccccac	420
cgataaaaagg	tggtttccag	ggtacctccc	tcagatggcg	gcggcggctc	ccgacggctt	480
actcaccagc	atccttcgcg	ggcgggggct	ctcggcaagg	cggcctcgtg	ccgaatcc	538

Homo sapiens ALL1-fused gene from chromosome 1q, mRNA (cDNA clone IMAGE:2823316).

ggaagctatg	agggaccctg	tgagtagcca	gtacagtcc	tttcttttct	ggaggatgcc	60
catcccagaa	ctggatctgt	eggagctgga	aggcctgggt	ctgtcagata	cagccaccta	120
caagggtcaaa	gacagcagcg	ttggcaaaat	gatcgggcaa	gcaactgcag	cagaccagga	180
gaaaaaccct	gaaggatgatg	gcctccttga	gtacagcacc	ttcaacttct	ggagagctcc	240
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atcaccttgc	cctcattgtc	ttccctctca	agccctctcc	tttccactcc	tttcccattt	360
taatcttggt	ctctccctac	tgtgttggtg	gtgctgatga	atctgccaga	gttgagttct	420
atgtatttat	ttatctatct	gtctactcca	tttctctcaa	aagccctcaa	gtcacaaagt	480
aaatggttca	agcaatggag	tactgggtca	cagggtattcc	tcctttcccc	cccaaatttt	540
aactccagaa	actaggcctg	actggggaca	cctgagagta	gtatagtagt	gcaaaatgga	600
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aacatgcatt	cctactatta	tgatagtttt	taagggtttca	attcaatctt	ctgaacggca	1080
taagtccat	tttagcctta	cctcctgcat	ttgcaatacg	taatactgat	cagtgggcac	1140
agttcttcag	ctacattgag	accctgaaat	gaacaattat	attctgactc	gacatcttgt	1200
ccccaatcct	tccaaaaata	ttgatggtga	tttgtgtctac	catttactcg	tttattttaat	1260
aaagacattc	aatcccagga	aaaaaaaaaa	aaaaaaaaaa	aa		1302

Human mRNA for acetyl-coenzyme A transporter, complete cds.

gaattcgag	cgagagctgg	agggtgtggg	tcgggagacc	agccattcga	tccccgcgca	60
ggtaggagct	ggtttccatc	ctggcaccac	ggcacacacc	tccagcctcg	agccccggcgc	120
tgctgccccg	gggtctcctt	caggctcttt	gacgcggttc	cagggggcac	ctatccaggc	180
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gaagtgccct	tatcgctctg	agccctgcca	ccatcccgtg	aaccacggaa	accctggtcc	300
agcgcgacag	ccttggacct	gggactggac	ggatccaaaa	cgctcagcct	cggcccccca	360
cagacggggc	tctgcatcgt	ctctgatatg	tcacccacca	tctcccacaa	ggacagcagc	420
cggcaacggc	ggccaggga	tttcagtca	tctctggata	tgaagagcgg	tccccgtccg	480
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agaacacccg	acgtgattgc	tctcactgtg	gcgttctttt	tgtttgaatt	cttggccgcc	960
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ccattaaaca	cattttacaa	agccatgccc	tacagattat	tgcttgggtt	agaatatgcc	1560
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ctgcttttgt	aagcattaaa	gatttgaatt	ccaccacact	gg		2682

Homo sapiens SDF2L1 mRNA for SDF2 like protein 1, complete cds.

gctggagccg	ggccggggcg	atgtggagcg	cgggccgcgg	cggggctgcc	tggcgggtgc	60
tgttggggct	gctgctggcg	ctgttagtgc	cgggcggtgg	tgccgccaaag	accggtgcgg	120
agctcgtgac	ctgcgggtcg	gtgctgaagc	tgtcaatac	gcaccaccgc	gtgcggctgc	180
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cgtcggacga	cgcgaatagc	tactggcgga	tccgcggcgg	ctcggagggc	gggtgcccgct	300
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gggagcgtga	ggctgctgtg	cgttacagc	atgtgggcac	ctctgtgttc	ctgtcagtc	540
cgggtgagca	gtatggaagc	cccatccgtg	ggcagcatga	ggtccacggc	atgccagtg	600
ccaacacgca	caatacgtgg	aaggccatgg	aaggcatctt	catcaagcct	agtgtggagc	660
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gtggggcgtc	tcagggcca	ctctggcag	agactttggg	tttgtagggg	tcctcaagtg	780
cctttgtgat	taaagaatgt	tggtctatga				810

Homo sapiens RTN2-A (RTN2) mRNA, complete cds.

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gaggcacctt	ggccgcgggg	cctgctggga	cttgtagtgt	cctagacagg	gcaccaccct	2040
gcacttccgg	acccgcgcgt	ggaggcgccg	tgaggcggtg	gtgtctcctg	gatgctacta	2100
gccccaacgc	cggggctttg	catggggccc	aggggaggcc	tgagcttggg	tttacactgt	2160
aataaagact	cctgtggaaa	aaaaaaaaa				2190

Homo sapiens cDNA: FLJ22209 fis, clone HRC01496.

cgatgatgag	gctgaagaaa	aggaagacaa	agaagaagaa	aaagaaaaag	aagagaaaga	60
gtcgggaagac	aaacctgaaa	ttgaagatgt	tggttctgat	gaagaagaag	aaaagaaacc	120
aaagactaaa	aaagttgaaa	aaactgtctg	ggactgggaa	cttatgaatg	atatcgttca	180
taaaactttcc	tattttatgta	tggagcagca	agactgaaac	tgttgaggag	cccatggagg	240
aagaagaagc	agccaaagaa	gagaaagaag	aatctgatga	tgaagctgca	gtagaggaag	300
aagaagaaga	aaagaaacca	aagactaaaa	aagttgaaaa	aactgtctgg	gactgggaac	360
ttatgaatga	tatcgttcat	aaactttcct	atttatgtat	ggagcagcaa	gactgaaact	420
gttgaggagc	ccatggagga	agaagaagca	gccaaagaag	agaaagaaga	atctgatgat	480
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gaaagaagaa	tctgatgatg	aagctgcagt	agagggaagaa	gaagaagaaa	agaaacccaa	720
gactaaaaaa	gttgaaaaaa	ctgtctggga	ctgggaactt	atgaatgata	tcgttcataa	780
actttcctat	ttatgtatgg	agcagcaaga	ctgaaactgt	tgaggagccc	atggaggaag	840
aagaagcagc	caaagaagag	aaagaagaat	ctgatgatga	agctgcagta	gaggaagag	900
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gctgcagtag	aggaagaaga	agaagaaaag	aaaccaaaag	ctaaaaaagt	tgaaaaaact	1140
gtctgggact	gggaacttat	gaatgatatc	gttcataaac	tttcctattt	atgtatggag	1200
cggcaagact	gaaactgttg	aggagcccat	ggaggaagaa	gaagcagcca	aagaagagaa	1260
agaagaatct	gatgatgaag	ctgcagtaga	ggaagaagaa	gaagaaaaga	aaccaaaagac	1320
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Homo sapiens UDP-N-acetylglucosamine-2-epimerase mRNA, complete cds.

cggcgtctgg	aactctat	tttagaacctct	caaaacgaaa	caagcaa	atggagaaga	60
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aactgcccc	gatcatgttt	ggcattaaaa	ccgaacctga	gttctttgaa	cttgatgttg	180
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atgactttga	cattaacacc	aggctacaca	caattgtgag	gggagaagat	gaggcagcca	300
tggtaggagtc	agtaggcctg	gccctagtga	agctgccaga	tgtcctta	cgctgaagc	360
ctgatatcat	gattgttcat	ggagacaggt	ttgatgccct	ggctctggcc	acatctgtg	420
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gaatgtttca	cttttgtctc	ctcttccaga	gtcaccttcc	ccactcta		2388

Homo sapiens carcinoembryonic antigen 2a (CEM2) mRNA, complete cds.

gccatgggtt	ccccttcagc	ctgtccatac	agagtgtgca	ttccctggca	ggggctcctg	60
ctcacagcct	cgcttttaac	cttctggaac	ctgccaaaca	gtgccagac	caatattgat	120
ggtgtgcgct	tcaatgtcgc	agaagggaag	gaggtccttc	tagtagtcca	taatgagtcc	180
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gagacaatat	acccaatgg	aaccctgctg	atccagaacg	tcacccacaa	tgacgcagga	360
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aaccagtag	gtgccagccg	cagtgaacca	gtcaccctga	atgtctgcta	tgagtcagta	720
caagcaagtt	cacctgacct	ctcagctggg	accgctgtca	gcacatgat	tggagtactg	780
gctgggatgg	ctctgatata	gcag				804

yh42a11.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:132380 5',  
mRNA sequence.

ggtttttaca	agagtaacac	atttaaattt	acagaggtaa	gaatttcctt	ggagaaatag	60
gtgctggtga	taataggagt	atctttcttt	tccatatcaa	cataattata	ataaataact	120
cacagattta	aaggcttatt	ttgtgccagg	cattctgctg	agtgtcttac	atacatgtct	180
catgtaatcc	tcccacacagc	tctgcaggga	caggagttaa	tgattatctt	gattttatag	240
gaataggtaa	tgtaatgctc	agagaggggt	aaacatctgg	gttaggtcac	acaggctaata	300
ccaatactta	ggttttaagg	ttttgaggac	tgggggtgcn	gtgggctcca	cggcctgtaa	360
tccccnggca	ctttggggga	ggcntaggcc	gggnccggtc	cccggggtcn	ggggtcccn	420
gccccctcgg						430

Homo sapiens immediate early response 3, transcript variant short, mRNA

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ggccccgacc	cgggccccct	ccaccatccc	gggacccccg	cggggctccg	gtcctgagat	120
cttcaccttc	gacctctccc	cggagccccg	agcggccccct	gccgggcccgc	ccagcgccctc	180
tccgccccgc	cgaaagcgca	gccgcagggt	tctctaccct	cgagtgggtcc	ggcgccagct	240
gccagtcgag	gaaccgaacc	cagccaaaag	gcttctcttt	ctgctgctca	ccatcgtctt	300
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cttctaactg	tgactccccg	cactccccaa	aaagaatccg	aaaaaccaca	aagaaacacc	540
aggcgtacct	ggtgcgcgag	agcgtatccc	caactgggac	ttccgaggca	acttgaactc	600
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ccgtgagatc	cttccatctt	cttgaagtgc	cctttagggt	ggctgcgagg	tagaggggtg	1140
ggggttggtg	ggctgtcacg	gagcgactgt	cgagatcgcc	tagtatgttc	tgtgaacaca	1200
aataaaaattg	atttactgtc	tgcaaaaaaa	aaaaaaaaa			1238

7f03b12.x1 NCI\_CGAP\_CLL1 Homo sapiens cDNA clone IMAGE:3293567 3', mRNA sequence.

ggtatttact tagctatgat aaagaataaa aagtcattta aaaaacgcga taggacagat	60
aacagactca caacgtatth agatttaaac actgctgggc tacgtaacct gttacaaaag	120
agagcaaaac ctaactgtca gcatagacat taaagctcac cgttgattat agctcagggc	180
ctgctcagca ttgtttaaaa agggtcactc acagtthttgt caaagagtgc tgggtgttctc	240
tatgaactca taaactgtth tatctgaaaa ggtgattthc taagtagtgt aagccatggg	300
tacatgggtgc aaaaagttca tgttctcact cagctgggtga gcgaaggatg ggagcagaga	360
acagagctaa aaccctggt tttcctthcc ccagatgtaa agcctgctag ctgggaactca	420
cagaagattg gaacaaaaag ataggagatg gacacctgng ggactgctcc agcacgaagg	480
gaagcgatga gcatcacaca gcag	504

human full-length cDNA 3-PRIME end of clone CS0DA009YG15 of NEUROBLASTOMA  
of Homo sapiens (human)

tttttttttt	atttytttaw	cacttccaat	aaactagcat	aagttttatt	acaacatata	60
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ascmvtkvaa	gttggcttag	agacatggta	tttttctttc	aaaactgtgt	ttctacaatg	180
atttctaagg	tcccagtctt	gcttgtaact	gacagtyacc	ctcatctaag	caacattaag	240
akctctgata	tctttagtaa	agaatacaaaa	accctgtktt	tcttaaaaawc	ctaagtctga	300
aagayatggt	atagccaatc	cagacaaaaca	tttatattta	aacattttata	tttaaacaaa	360
angyctctct	gaacaaatag	cctgcbgaga	taaatacagt	gatttgtttt	cctgatagaa	420
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gccatgtcca	gttcagactg	tcggctatca	ggygtcttct	tgtgcactcy	tggagtctgt	1080
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cccagcatac	gkccmcmcaw	tcggcastgc	ggctttcccg	gwtwctttct	gcctkaacca	1200
g						1201

602288121F1 NIH\_MGC\_97 Homo sapiens cDNA clone IMAGE:4373861 5', mRNA sequence.

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cgaggccatc ttttgttggg gaaggcgtcg gcgttggcgt tttcccgagg ttgggctgta      240
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Homo sapiens organic anion transporter polypeptide-related protein 1  
(OATPRP1) mRNA, complete cds.

```

ggcacgaggc gctgcgcggc gggcgggcgg ggcctcag acggggacgg acacaccage      60
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gttatttaag cctgcgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      2760
aaa

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Homo sapiens cDNA: FLJ21243 fis, clone COL01164.

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gaaagacttg	gtcaactcta	atatatctag	aaggaagact	atatctggtg	tagactaata	180
tgagatgttt	tagaagagtt	aacctgaaca	ctttgagggg	gagattatc	ttgccagcaa	240
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cttagcaaca	tgtgataatg	caaagctgtt	ataacctgtt	aatcctacgt	actatgtgtt	420
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tagtaattat	tttatggaaa	tgtagcaat	tctgtaccaa	ctttgaataa	aatgaaaaat	1860
ttaaaaaaaa	aaaaaaaaaa					1880



ab38f03.s1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone  
IMAGE:843101 3' similar to contains Alu repetitive element;; mRNA sequence.

```
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ctgggattac aggcgcctgc caccacgccc ggctaatttt tatattttta gttgagacag 180
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cagcctccca aagtgcctggg attacaggca tgagccaccg tgccggacct atttaaaaat 300
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taggtaataa ttattttgcc catatacaag taatgtaaag agag 464
```

Homo sapiens KPL1 (KPL1) mRNA, complete cds.

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ggaagcggaa	ctggtttgcc	ctgtggctgg	acgggaccct	gggatactac	cacgatgaga	120
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cccttcagtg	ctcttcccc	tttctatccc	aatcaccaat	agaaatgcta	acatccctgc	1800
ctggtagcca	ga					1812

Homo sapiens carboxypeptidase, vitellogenic-like, transcript variant 2,  
mRNA (cDNA clone MGC:10029 IMAGE:3888647), complete cds.

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tcgcctcggg cctcggact tagggagcgc ggggcagacc ctgagagatg gttggtgcca      180
tgtggaaggt gattgtttcg ctggtcctgt tgatgcctgg cccctgtgat gggctgtttc      240
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tcacccctta cattgaagct gggaagatcc aaaaaggaa agaatgagt ttggtcggcc      360
ctttcccagg actgaacatg aagagttatg ccggcttcct caccgtgaat aagacttaca      420
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cgctctccat gctttacatt gacaatccag tgggcacagg cttcagtttt actgatgata      660
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tcagaggttt tcattgctga aaagaaaatc gtaaaaacag aaaatgtcat aggaataaaa      1680
aaattatctt ttcatatctg caagatTTTT ttcatcaata aaaattatcc ttgaaaaaaa      1740
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa

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Homo sapiens teratocarcinoma-derived growth factor 1, mRNA (cDNA clone MGC:24110 IMAGE:4615416), complete cds.

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agtttccctt ggacgccttg ctctgcttc tgctacgacc ttctggggaa aacgaatttc      60
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gctttctca ggcatctcta cccggctgtg atggccttgt gatggatgag cacctcgtgg      660
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ttagatatca tgcaaatttc atgaccagta aaggctgctg ctacaatgtc ctaactgaaa      840
gatgatcatt ttagttgcc ttaaaataat gaatacattt ccaaaatggg ctctaactt      900
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gctatataag acaagaaatc cccttttttt cccaaaggca aaaaaaaaaa aaaaaaaaaa      1740
aaaaaaaaa

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Homo sapiens lipase mRNA, complete cds.

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atgcctgaag	ctgaacaaaa	aacctttcca	cctggtaggc	acctccatgg	gtggccaggt	720
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gcttcagctc	tgctcctatg	tccgcttcaa	ggtgccccag	cagatcctgc	aaggccttgt	960
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tatccacggt	tccccagagc	tttggggacc	acggcgaaaa	cctccaagat	a	1491

Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog, mRNA  
(cDNA clone MGC:11074 IMAGE:3688670), complete cds.

ccaagactga	gccggcgggc	gcggcgcgagc	gaacgagcag	tgaccgtgct	cctacccagc	60
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aaaaaaaaaa	aaaa					1814

Homo sapiens endoplasmic reticulum lumenal Ca<sup>2+</sup> binding protein grp78 mRNA, complete cds.

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cccccaactg	gtgaagagga	tacagcagaa	aaagatgagt	tgtag		1965

Homo sapiens S100 calcium binding protein A2, mRNA (cDNA clone MGC:3847  
IMAGE:3659591), complete cds.

```

ctcccctcac cccggtccag gatgcccagt ccccacgaca cctcccactt cccactgtgg      60
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gagctggcac tctctgggag ggagggggct gggagggaaat gagtgggaat ggcaagaggc      180
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ccagtggggc ccacatataa atcctcacc tgggagcctg gctgccttgc tctccttcct      300
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tgttgaaaaa aaaaaaaaaa aaaaaaaaaa

```



wa01c11.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone IMAGE:2296820 3', mRNA  
sequence.

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ggaaacaggg	tgaatttacc	aagataaatt	agggtgggga	tacctactgc	caacttgtgc	420
ggttgtcgaa	ttcactgtaa	tatgtattcc	tcttattgat	agagctctga	atgtaaacia	480
ccta						484

Human 150 kDa oxygen-regulated protein ORP150 mRNA, complete cds.

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tac						4503

Homo sapiens s-CaBP1 (CABP1) mRNA, complete cds.

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agagcccagg	atgtactggc	ggatggggcc	tgctgcacc	ccggggcgga	attc	714

Homo sapiens cDNA FLJ12397 fis, clone MAMMA1002769, weakly similar to Homo sapiens cell cycle progression restoration 8 protein (CPR8) mRNA.

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sequence.

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agctttg
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Homo sapiens cDNA FLJ13465 fis, clone PLACE1003493, weakly similar to  
 ENDOTHELIAL CELL MULTIMERIN PRECURSOR.

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Homo sapiens heat shock 27kDa protein 1, mRNA (cDNA clone MGC:8509  
IMAGE:2822325), complete cds.

```

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caggacgagc atggctacat ctcccgggtg ttacgcgga aatacacgct gccccccggt 540
gtggacccca cccaagtttc ctccctccctg tccctgagg gcacactgac cgtggaggcc 600
cccatgccca agctagccac gcagtccaac gagatcacca tcccagtcac cttcgagtcg 660
cgggccagc ttggggggccc agaagctgca aaatccgatg agactgccgc caagtaaagc 720
cttagcccg atgcccaccc ctgctgccgc cactggctgt gcctcccccg ccacctgtgt 780
gttcttttga tacatttatc ttctgttttt ctcaaataaa gttcaaagca ccccccaaaa 840
aaaaaaaaa aaaaaaaaaa aaaaaaa 867

```

Homo sapiens carcinoembryonic antigen (CEM2) mRNA, complete cds.

ccatgggttc	cccttcagcc	tgtccataca	gagtgtgcat	tccctggcag	gggtccctgc	60
tcacagcctc	gcttttaacc	ttctggaacc	tgccaaacag	tgcccagacc	aatattgatg	120
tcgtgcggtt	caatgtcgca	gaaggggaagg	aggtccttct	agtagtccat	aatgagtccc	180
agaatcttta	tggctacaac	tggtacaaaag	gggaaagggt	gcatgccaac	tatcgaatta	240
taggatatgt	aaaaaatata	agtcaagaaa	atgccccagg	gcccgcacac	aacgggtcgag	300
agacaatata	ccccaatgga	accctgctga	tccagaacgt	taccacaaat	gacgcaggat	360
tctataccct	acacgttata	aaagaaaatc	ttgtgaatga	agaagtaacc	agacaattct	420
acgtattctc	ggagccaccc	aagccctcca	tcaccagcaa	caacttcaat	ccggtggaga	480
acaaagatat	tgtggtttta	acctgtcaac	ctgagactca	gaacacaacc	tacctgtggt	540
gggtaaacaa	tcagagcctc	ctggtcagtc	ccaggctgct	gctctccact	gacaacagga	600
ccctcgttct	actcagcgcc	acaaagaatg	acataggacc	ctatgaatgt	gaaatacaga	660
acccagtggg	tgccagcgcg	agtgaaccag	tcacctgaa	tgtccgctat	gagtcagtac	720
aagcaagttc	acctgacctc	tcagctggga	ccgctgtcag	catcatgatt	ggagtactgg	780
ctgggatggc	tctgatatag	cagccttggt	g			811

Homo sapiens keratin 7, mRNA (cDNA clone MGC:3625 IMAGE:3610347), complete cds.

ctcctcctcg	ccgcgcgcta	ggtccatccc	ggcccagcca	ccatgtccat	ccacttcagc	60
tccccgggat	tcacctcgcg	ctcagccgcc	ttctcggggc	gcggcgccca	ggtgcgcctg	120
agctccgctc	gccccggcgg	ccttggcagc	agcagcctct	acggcctcgg	cgctcgcggg	180
ccgcgcgctg	cgtgcgctc	tgcctatggg	ggcccgggtg	gcgccggcat	ccgcgaggtc	240
accattaacc	agagcctget	ggccccgctg	cgctggacg	ccgacccctc	cctccagcgg	300
gtgcgccagg	aggagagcga	gcagatcaag	accctcaaca	acaagtttgc	ctccttcatc	360
gacaagggtg	ggtttctgga	gcagcagaac	aagctgctgg	agaccaagtg	gacgtgctg	420
caggagcaga	agtgcggcaa	gagcagccgc	ctcccagaca	tctttgaggg	ccagattgct	480
ggccttcggg	gtcagcttga	ggcactgcag	gtggatgggg	gccgcctgga	ggcggagctg	540
cggagcatgc	aggatgtggt	ggaggacttc	aagaataagt	acgaagatga	aattaaccgc	600
cgcacagctg	ctgagaatga	gtttgtggtg	ctgaagaagg	atgtggatgc	tgctacatg	660
agcaagggtg	agctggaggg	caaggtggat	gccctgaatg	atgagatcaa	cttctcagg	720
accctcaatg	agacggagtt	gacagagctg	cagtcccaga	tctccgacac	atctgtggtg	780
ctgtccatgg	acaacagtcg	ctccctggac	ctggacggca	tcatcgctga	ggtcaaggca	840
cagtatgagg	agatggccaa	atgcagccgg	gctgaggctg	aagcctggta	ccagaccaag	900
tttgagaccc	tccaggccca	ggctgggaag	catggggacg	acctccggaa	taccgggaat	960
gagatttcag	agatgaaccg	ggccatccag	aggctgcagg	ctgagatcga	caacatcaag	1020
aaccagcgtg	ccaagttgga	ggccgccatt	gccgaggctg	aggagcgtgg	ggagctggcg	1080
ctcaaggatg	ctcgtgccaa	gcaggaggag	ctggaagccg	ccctgcagcg	ggccaagcag	1140
gatatggcac	ggcagctgcg	tgagtaccag	gaactcatga	gcgtgaagct	ggcctgggac	1200
atcgagatcg	ccacctaccg	caagctgctg	gagggcgagg	agagccggtt	ggctggagat	1260
ggagtgggag	ccgtgaatat	ctctgtgatg	aattccactg	gtggcagtag	cagtggcggt	1320
ggcattgggc	tgaccctcgg	gggaaccatg	ggcagcaatg	ccctgagctt	ctccagcagt	1380
gcgggtcctg	ggctcctgaa	ggcttattcc	atccggaccg	catccgccag	tcgcaggagt	1440
gcccgcgact	gagccgcctc	ccaccactcc	actcctccag	ccaccacca	caatcacaag	1500
aagattccca	cccctgcctc	ccatgcctgg	tcccagaca	gtgagacagt	ctggaaagtg	1560
atgtcagaat	agcttccaat	aaagcagcct	cattctgagg	cctgagtgat	ccacgtgaaa	1620
aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa		1668

Homo sapiens hxCT mRNA for cystine/glutamate exchanger, complete cds.

cctgtgaaca	ctatagcgct	gagagagaca	gtctgaaagc	agaggaagac	atcgatcagt	60
aacaccaaga	gacaccaaaag	ttgaaagttt	tgttttcttt	ccctctgttt	tatttttccc	120
ccgtgtgtcc	ctactatggt	cagaaagcct	gttgtgtcca	ccatctccaa	aggaggttac	180
ctgcaaggaa	atgttaacgg	gaggctgcct	tccctgggca	acaaggagcc	acctgggcag	240
gagaaagtgc	agctgaagag	gaaagtcact	ttactgaggg	gagtctccat	tatcattggc	300
accatcattg	gagcaggaat	cttcatctct	cctaagggcg	tgctccagaa	cacgggcagc	360
gtgggcatgt	ctctgaccat	ctggacgggtg	tgtgggggtcc	tgtcactatt	tggagctttg	420
tcttatgctg	aattgggaac	aactataaag	aaatctggag	gtcattacac	atatattttg	480
gaagtctttg	gtccattacc	agcttttgta	cgagtctggg	tggaactcct	cataatacgc	540
cctgcagcta	ctgctgtgat	atccctggca	tttggacgct	acattctgga	accatttttt	600
attcaatgtg	aaatccctga	acttgcgac	aagctcatta	cagctgtggg	cataactgta	660
gtgatgggtcc	taaatagcat	gagtgtcagc	tggagcgccc	ggatccagat	tttcttaacc	720
ttttgcaagc	tcacagcaat	tctgataaatt	atagtccctg	gagttatgca	gctaattaaa	780
ggtaaaacgc	agaactttaa	agacgccttt	tcaggaagag	attcaagtat	tacgcgggtg	840
ccactggcctt	tttattatgg	aattgtatgca	tatgctgggt	ggttttacct	caactttgtt	900
actgaagaag	tagaaaaacc	tgaaaaaacc	attccctctg	caatatgtat	atccatggcc	960
attgtcacca	ttggctatgt	gctgacaaat	gtggcctact	ttacgacct	taatgctgag	1020
gagctgctgc	tttcaaatgc	agtggcagtg	accttttctg	agcggctact	gggaaatttc	1080
tcattagcag	ttccgatctt	tgttgccctc	tctgctttg	gtcccatgaa	cggtgggtgtg	1140
tttgcgtgtc	ccaggttatt	ctatgttgcg	tctcgagagg	gtcaccttcc	agaaatcttc	1200
tccatgattc	atgtccgcaa	gcacactcct	ctaccagctg	ttattgtttt	gcaccttttg	1260
acaatgataa	tgctcttctc	tggagacctc	gacagtcttt	tgaatttcct	cagttttgcc	1320
aggtggcctt	ttattggggt	ggcagttgct	gggctgattt	atcttcgata	caaatgccca	1380
gatatgcac	gtcctttcaa	ggtgccactg	ttcatcccag	ctttgttttc	cttcacatgc	1440
ctcttcattg	ttgccctttc	cctctattcg	gacccattta	gtacagggat	tggcttcgtc	1500
atcactctga	ctggagtcct	tgcgtattat	ctctttatta	tatgggacaa	gaaaccagg	1560
tggtttagaa	taatgtcagg	gttcctagca	ctgatgcctg	cacaagcatg	tgatatgtga	1620
aataaaatgg	attcttctat	agctaaatga	gttcctctg	gggagagtgc	tggtagtgca	1680
atcacaatgc	cagatgggtg	ttatgggcta	tttgtgtaag	taagtggtaa	gatgctatga	1740
agtaagtgtg	tttgttttca	tcttatggaa	actcttgatg	catgtgcttt	tgtatggaat	1800
aaattttggg	gcaatatgat	gtcattcaac	tttgcatgga	attgaatttt	ggttggtatt	1860
atatgtatta	tacctgtcac	gcttctagtt	gcttcaacca	ttttataacc	atttttgtac	1920
atattttact	tgaaaatatt	ttaaatggaa	atttaaataa	acatttgata	gtttacataa	1980
taaaaaaaaa	aaaaaaaaaa					2000

Homo sapiens eukaryotic translation elongation factor 1 alpha 2, mRNA (cDNA clone MGC:8362 IMAGE:2819899), complete cds.

cactgcagcc	cccctcgccc	tgagccagag	caccccgggt	cccgccagcc	cctcacactc	60
ccagcaaaat	gggcaaggag	aagaccaca	tcaacatcgt	ggtcatcggc	cacgtggact	120
ccggaaaagtc	caccaccacg	ggccacctca	tctacaaatg	cggaggtatt	gacaaaagga	180
ccattgagaa	gttcgagaag	gaggcggtcg	agatggggaa	gggatccttc	aagtatgcct	240
gggtgctgga	caagctgaag	gcgagcggtg	agcgcgcat	caccatcgac	atctccctct	300
ggaagttcga	gaccaccaag	tactacatca	ccatcatcga	tgcccccggc	caccgcgact	360
tcatcaagaa	catgatcacg	ggtacatccc	aggcggtactg	cgcatgctg	atcgtggcgg	420
cgggcgtggg	cgagttcgag	gcgggcatct	ccaagaatgg	gcagacgcgg	gagcatgccc	480
tgctggccta	cacgctgggt	gtgaagcagc	tcatcgtggg	cgtgaacaaa	atggactcca	540
cagagccggc	ctacagcgag	aagcgctacg	acgagatcgt	caaggaaagtc	agcgctaca	600
tcaagaagat	cggctacaac	ccggccaccg	tgccctttgt	gcccattctc	ggctggcacg	660
gtgacaacat	cgtggagccc	tcccccaaca	tgccgtggtt	caagggtggtg	aaggtggagc	720
gtaaggaggg	caacgcaagc	ggcgtgtccc	tgctggaggc	cctggacacc	atcctgcccc	780
ccacgcgccc	cacggacaag	cccctgcgcc	tgccgctgca	ggacgtgtac	aagattggcg	840
gcattggcac	ggtgcccggtg	ggccgggtgg	agaccggcat	cctgcggccg	ggcatggtgg	900
tgacctttgc	gccagtgaac	atcaccactg	aggtgaagtc	agtggagatg	caccacgagg	960
ctctgagcga	agctctgccc	ggcgacaacg	tgggttcaa	tgtgaagaac	gtgtcggtga	1020
aggacatccg	gcggggcaac	gtgtgtgggg	acagcaagtc	tgaccgcgcg	caggaggctg	1080
ctcagttcac	ctcccaggtc	atcatcctga	accaccggg	gcagattagc	gccggctact	1140
ccccggtcat	cgactgccac	acagcccaca	tgcctgcaa	gtttgcggag	ctgaaggaga	1200
agattgaccg	gcgctctggc	aagaagctgg	aggacaaccc	caagtccctg	aagtctggag	1260
acgcggccat	cgtaggagatg	gtgcggggaa	agcccatgtg	tgtggagagc	ttctcccagt	1320
accgcctct	cggccgcttc	gccgtgcgcg	acatgaggca	gacggtggcc	gtaggcgtca	1380
tcaagaacgt	ggagaagaag	agcggcggcg	cggcaaggt	caccaagtcg	gcgcagaagg	1440
cgcagaaggc	gggcaagtga	agcgcgggcg	cccgcggcgc	gacctcccc	ggcggcgcgc	1500
cgtccgaac	ccggccccgg	cccccgcccc	gccccgccc	cgcgcgccgc	tccggcgccc	1560
cgcacccccg	ccaggcgcgt	gtctgcacct	ccgcttgcca	gaggccctcg	gtcagcgact	1620
ggatgctcgc	catcaaggtc	cagtggaaag	tcttcaagag	gaaaggcgcc	cccgcgccag	1680
gcttcgcgcg	ccagcgctcg	ccacgctcag	tgcccgtttt	accaataaac	tgagcgaccc	1740
caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a		1781

Homo sapiens cDNA clone:HEMBA1000726, 3' end, expressed in whole embryo mainly head.

gagacggagt	ctcgtctcttg	tcacccaggt	tggagtgcag	tggcacaatc	tcggctcact	60
gcaacctcca	cctcctgtgt	ttaaacgatt	ctcctgcttc	agcctcctga	gtagctggaa	120
ttacaggccc	tgccaccacc	cccccgctaa	tttttgtcta	tttttttttt	ttagtagaga	180
cgggggtttca	ccatgttggc	tagtctggtc	ttgaactcct	gactgacctc	agacgaacca	240
cccgccctcag	actcccaaag	tgtcaggatt	acaggcggtta	gccaccatac	ctggcctgct	300
cccagttttt	acaagatgtt	aattcccaat	aatctgagag	caatgtgtta	atatgaatat	360
taattcttct	aatgaatat	tcatccttat	ttcctacttg	tataggtgga	tgaataaaga	420
tccaatagta	taatagaaag	actattagta	agaatgccag	aaggncagtc	tcatgcacct	480
ggtgaaataa	accaaccaac	caacctgaan	tctaaagctt	gngtggcaag	taccactgtg	540
gggaagtgtg	gaattaacnc	tcttttccta	aggggtc			576

## Homo sapiens MDG1 mRNA, complete cds.

tagctggctg	agaggggact	gggcgcggc	ggggaaggag	gagcgctagg	tcgggtgtacg	60
accgagatta	gggtgcgtgc	cagctccggg	aggccgcggg	gaggggcccg	gcccagctg	120
ccgacccgag	ccgatcgtca	gggtcgccag	cgctcagct	ctgtggagga	gcagcagtag	180
tcggagggtg	caggatatta	gaaatggcta	ctccccagtc	aattttcatc	tttgcaatct	240
gcattttaat	gataacagaa	ttaattctgg	cctcaaaaag	ctactatgat	atcttaggtg	300
tgccaaaatc	ggcatcagag	cgccaaatca	agaaggcctt	tcacaagttg	gccatgaagt	360
accaccctga	caaaaataag	agcccggatg	ctgaagcaaa	attcagagag	attgcagaag	420
catatgaaac	actctcagat	gctaatagac	gaaaagagta	tgatacactt	ggacacagtg	480
cttttactag	tggtaaagga	caaagaggta	gtggaagttc	ttttgagcag	tcattttaact	540
tcaattttga	tgaactatct	aaagactttg	gcttttttgg	tcaaaaccaa	aacactggat	600
ccaagaagcg	ttttgaaaat	catttccaga	cacgccagga	tggtggttcc	agtagacaaa	660
ggcatcattt	ccaagaattt	tcttttggag	gtggattatt	tgatgacatg	tttgaagata	720
tggagaaaat	gttttctttt	agtggttttg	actctacca	tcagcataca	gtacagactg	780
aaaatagatt	tcatggatct	agcaagcact	gcaggactgt	cactcaacga	agaggaaata	840
tggttactac	atacactgac	tggtcaggac	agtagttctt	attctattct	cactaaatcc	900
aactggttga	ctcttctca	ttatctttga	tgctaaacaa	ttttctgtga	actattttga	960
caagtgcatt	atcttacttt	aaacaatttg	atatagctat	taaatatatt	taaggggttt	1020
tttttttttg	acaaattcaa	cattcaacga	gtagacaaaa	tgctaattat	ttccctgatt	1080
aggaaagttt	ctttaaaaaa	cacgtaattt	tgcttagtgc	tttttctcta	cctgcccttg	1140
ggctcactaa	tatcaccagt	attattacca	agaaaatatt	gagtttacct	gattaaactt	1200
taaaagttaa	ttgtagattt	aaattgtgtg	aacctaatga	tttttgagct	gaaaccttta	1260
ctaattcaaa	gttgcatggt	ctatgacatc	tgtagcttgc	gttgacagag	gtacatgaaa	1320
ctgtataatt	gagtcattca	gtaaaggaga	acagtatctt	ggttaattgc	tactgaaagg	1380
ttgagaaaag	aatgggttga	tatttaccac	agcgtgtgtc	ctttctacag	tagaactggg	1440
gtaaaggaaa	tggttttatt	gcccatagtc	atttaggctg	gaaaaaagtt	gaaaacttaa	1500
cgaaatattg	ccaagagatt	gttatgtgtt	tggttccagc	ctaaaaatga	ttttgtagtg	1560
ttgaaatcat	agctacttac	atagcttttt	catatttctt	tcttagttgt	tggcactott	1620
aggtcttagt	atggatttat	gtgtttgtgt	gtgtgtagtt	tatcctctct	ctcatcttta	1680
tctagagatt	gactgatacc	tcattctggt	tgtaaaacca	gccagtaatt	tctgtgcaac	1740
cttactatgt	gcaatatttt	taaatcctga	gaaatgtgtg	cttttgtttt	cggatagact	1800
tatttcttta	gttctgcact	tttccacatt	atactccata	tgagtattaa	tcctatggat	1860
acatatataa	acaagtgtct	catacaacat	tgtatgtgag	agaaatataa	atattttacaa	1920
cctgaaaaa						1929

Homo sapiens prostate stem cell antigen (PSCA) mRNA, complete cds.

agggagaggc	agtgaccatg	aaggctgtgc	tgcttgccct	gttgatggca	ggcttggccc	60
tgagccagg	cactgccctg	ctgtgctact	cctgcaaagc	ccaggtgagc	aacgaggact	120
gcctgcaggt	ggagaactgc	acccagctgg	gggagcagtg	ctggaccgcg	cgcacccgcg	180
cagttggcct	cctgaccgtc	atcagcaaag	gctgcagctt	gaactgcgtg	gatgactcac	240
aggactacta	cgtgggcaag	agaacatca	cgtgctgtga	caccgacttg	tgcaacgccca	300
gcggggccca	tgccctgcag	ccggctgccg	ccatccttgc	gctgctccct	gcactcggcc	360
tgctgctctg	gggacccggc	cagctatagg	ctctgggggg	ccccgctgca	gcccacactg	420
ggtgtgggtg	cccaggcctt	tgtgccactc	ctcacagaac	ctggcccagt	gggagcctgt	480
cctggttcct	gaggcacatc	ctaacgcaag	tttgaccatg	tatgtttgca	ccccctttcc	540
ccnaaccctg	accttcccat	gggccttttc	caggattccn	accnggcaga	tcagttttag	600
tganacanat	ccgcntgcag	atggcccctc	caaccntttt	tggtgntggt	tccatggccc	660
agcattttcc	acccttaacc	ctgtgttcag	gcacttnttc	ccccaggaag	ccttccctgc	720
ccaccccat	tatgaattga	gccaggtttg	gtccgtgggtg	tcccccgac	ccagcagggg	780
acaggcaatc	aggagggccc	agtaaaggct	gagatgaagt	ggactgagta	gaactggagg	840
acaagagttg	acgtgagttc	ctgggagttt	ccagagatgg	ggcctggagg	cctggaggaa	900
ggggccaggc	ctcacatttg	tgggntccc	gaatggcagc	ctgagcacag	cgtaggccct	960
taataaacac	ctgttgata	agccaaaaa				990



## Human arginine-rich protein (ARP) gene, complete cds.

cttcggtcct	gctgtagtgc	cttctgcgcc	aggccccggtt	caatcagcgg	ccacaaactgt	60
ctagggctca	gacaccacca	gccaatgagg	gagggcacgt	ggagccgcgt	ctgggctcgc	120
ggctcctgac	caatggggaa	gtggcatgtg	ggagggcgcc	ggggttcccc	ccgccaatgg	180
ggagctacgg	cgcgcggccg	ggacttggag	gcggtgcggc	gcggcgggtg	cggttcagtc	240
ggtcggcggc	ggcagcggag	gaggaggagg	aggaggagga	tgaggaggat	gaggaggatg	300
tgggccacgc	aggggctggc	ggtgcgcgtg	gctctgagcg	tgctgccggg	cagccgggcg	360
ctgcggccgg	gcgactgcga	agtttgtatt	tcttatcttg	gaagatttta	ccaggacctc	420
aaagacagag	atgtcacatt	ctcaccagcc	actattgaaa	acgaaactat	aaagtctctgc	480
cgggaagcaa	gaggcaaaga	gaatcggttg	tgctactata	tcggggccac	agatgatgca	540
gccaccaaaa	tcatcaatga	ggtatcaaag	cctctggccc	accacatccc	tgtggagaag	600
atctgtgaga	agcttaagaa	gaaggacagc	cagatatgtg	agcttaagta	tgacaagcag	660
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gatgactggg	gggagacatg	caaaggctgt	gcagaaaagt	ctgactacat	ccggaagata	780
aatgaactga	tgccctaaata	tgcccccaag	gcagccagtg	caccgaccga	tttgtagtct	840
gctcaatctc	tggtgcacct	gagggggaaa	aaacagttca	actgcttact	cccaaaacag	900
cctttttgta	atattttttt	taagtgggct	cctgacaata	ctgtatcaga	tgtgaagcct	960
ggagctttcc	tgatgatgct	ggccctacag	tacccccatg	aggggattcc	cttccttctg	1020
ttgctgggtg	actctaggac	ttcaaagtgt	gtctgggatt	tttttattaa	agaaaaaaaa	1080
tttctagctg	tcaaaaaaaaa	aaa				1103

Homo sapiens interleukin 11 receptor, alpha, transcript variant 1, mRNA  
(cDNA clone MGC:2146 IMAGE:3502059), complete cds.

```

gggggctgta gctggtgaga ggaagtcccta gaggctatgg acactctgct gctgggatca      60
ccgagatgag cagcagctgc tcagggctga gcagggctcct ggtggccgtg gctacagccc      120
tggtgtctgc ctctccccc tgccccagg cctggggccc ccagggggtc cagtatgggc      180
agccaggcag gtccgtgaag ctgtgttgc ctggagtgc tggccgggac ccagtgtcct      240
ggtttcggga tggggagcca aagctgctcc agggacctga ctctgggcta gggcatgaac      300
tggtcctggc ccaggcagac agcactgatg agggcaccta catctgccag accctggatg      360
gtgcaacttg gggcacagtg accctgcagc tgggctaccc tccagcccgc cctgttgtct      420
cctgccaagc agccgactat gagaacttct ctgcaacttg gactcccagc cagatcagcg      480
gtttaccac ccgctacctc acctcctaca ggaagaagac agtcctagga gctgatagcc      540
agaggaggag tccatccaca gggccctggc catgcccaca ggatccctta ggggctgccc      600
gctgtgttgt ccacggggct gacttctgga gccagtaccg gattaatgtg actgagggtga      660
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tgtatgtagg tgcttgggga gtgtgtgtgg gtccctggct ctgggctttt ccccttgacg      1680
gggtgtgca ggtgtgaata aagagaataa ggaagtctt ggaaaaaaaa aaaaaaaaaa      1740
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacctc gggg                                1783

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Homo sapiens mRNA; cDNA DKFZp56402071 (from clone DKFZp56402071); complete cds

```

gggggcagca ggccaagggg gagtgcgag cgtggacctg ggacgggtct gggcggtct      60
cgggtggttg cacgggttcg cacacccatt caagcggcag gacgcacttg tcttagcagt      120
tctcgtgac cgcgctagct gcggttcta cgctccggca ctctgagttc atcagcaaac      180
gccctggcgt ctgtcctcac catgcctagc ctttgggacc gcttctcgtc gtcgtccaac      240
tctcttgcg cctcgtcctt gcccgaact cccaccccag atcggccgcc gcgctcagcc      300
tgggggtcgg cgaccgggga ggagggttt gaccgtcca cgagcctgga gagctcggac      360
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ttaaaacaaa	aaaaaaaaa	aaaaaaaaa				

## Homo sapiens collagen alpha 3 type IX (COL9A3) mRNA, complete cds.

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cagggggaag	tcggcaagga	cgcgagaaag	ggtgacctg	gccccctgg	gcccgcgggc	660
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atatattaaa	tcttcagatt	aatgactggc	tacagagtaa	caaaaaataa	acaatttaat	2460
gtacagtaaa	ttctctccca					2480

Homo sapiens cDNA FLJ20113 fis, clone COL05437.

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ggcctgacgg	caactgtttc	tatcgggctt	tcggattctc	ccacttggag	gcactgctgg	360
atgacagcaa	ggagttgcag	cggttcaagg	ctgtgtctgc	caagagcaag	gaagacctgg	420
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ccctcagcgt	gtccatccag	gtggagtaca	tggaccgagg	cgagggcggc	accaccaatc	780
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aaaaaaa						1747

01763146F1 NIH\_MGC\_20 Homo sapiens cDNA clone IMAGE:4026010 5', mRNA  
sequence.

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aaccagaaa	tttagacagg	gatctcttac	ctttggaaaa	taggggttag	gcataaaggt	480
ggttgtgatt	aagaagatgg	tttgttatta	aatagcatta	aactggaatt	ga	532

Human plasma serine protease (protein C) inhibitor mRNA, complete cds.

aattccggca	gagctccgtt	tcctcataga	acaaagaaca	tcaccatgc	agctcttcct	60
cctcttgtagc	ctggtgcttc	tcagccctca	gggggcctcc	cttcaccgcc	accacccccg	120
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aagggacttt	acctttgacc	tctacagggc	cttggcttcc	gctgccccca	gccagaacat	240
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tttttg						2106

Homo sapiens DKFZP586A0522 protein, mRNA (cDNA clone MGC:5320  
IMAGE:2900478), complete cds.

tgagcaatgg	agcttaccat	ctttatcctg	agactggcca	tttacatcct	gacatttccc	60
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cagcctggcc	aacatggcaa	aaccctacta	aagatacaaa	aaaaaaaaaa	aa	2152



## Homo sapiens calcium binding protein 1 (calbrain), mRNA (cDNA clone

ggtgggtgcc	tgtagaccaa	gctgctcagg	aggetgagge	aggagaatca	cttgaatccg	60
ggagtcagag	gttgcagtga	gccaagatca	cgccactgca	ctccagcctg	ggcgacagag	120
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ctcgctcag	ccctgttatc	tcagaaccaa	taaaaatatt	tccaagagca	aaaaaaaaa	1860
aaaaaaaaa						1868

## Homo sapiens TNNT1 gene, exons 1-11 (and joined CDS)

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ggctcccca	aagccacaca	gcaggttggg	gaccagatgg	gtctcccatg	tgaagcactc	120
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cttaagaagc	ggatcacaac	ctgaagacca	gaagcatggc	ttcttgccaa	aaaacaaaag	240
caggcacttt	aagggagggg	agggcaaggc	aggaatttat	gctgagtggg	ttagctaagt	300
gcacgtattc	aactggttat	agaaggagct	atgaatattc	atggacaggt	ggacacatgg	360
acacacgcat	gtgtgacaag	caaacactca	tttttttttt	tttttgagac	ggagtcttgc	420
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tggtctcgat	ttcctgacct	cgtgatccgc	cctccttggc	ctcccaaagt	gctgggatta	660
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gtagattttt						16689

Homo sapiens negative growth-regulatory protein MyD118 (MYD118) mRNA,  
complete cds.

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yz12f12.s1 Soares\_multiple\_sclerosis\_2NbHMSP Homo sapiens cDNA clone  
IMAGE:282863 3', mRNA sequence.

tggagaagga	aggacagttt	ttcttcctcc	aagagtacca	atttgaccac	tcccactaac	60
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Homo sapiens synaptogyrin 3, mRNA (cDNA clone MGC:20003 IMAGE:4334996), complete cds.

cagcggcctc	gggcggggcc	ggccggacgg	acagggcgac	agaaggcgcc	agggggcgcg	60
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aaaaaaaaaa	aaaaaa					1996

Human 14 kd lectin mRNA, complete cds.

cttctgacag	ctgggtgcgcc	tgcccgggaa	catcctoctg	gactcaatca	tggttgtgg	60
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Homo sapiens monocarboxylate transporter 2 (MCT2) mRNA, complete cds.

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gtcacctctt	gtgcccactg	gcacaggact	acacaagcct	ggtattatat	gctgtatttt	1200
ttggccttgg	atttgggagt	gttagcagtg	ttctctttga	aactctcatg	gacctcgtgg	1260
gtgcaccaag	attttccagt	gccgtcggac	ttgtcacaat	tgtggagtgt	ggcccagttc	1320
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acatgtcctg	tggggctatt	gtggtagcag	caagcgtgtg	gctgctcatt	ggcaatgcta	1440
tcaactatag	attgcttgca	aaggaaagga	aggaggaaaa	tgcaaggcag	aagaccagag	1500
aatctgaacc	cttgagcaaa	tctaaccatt	cgggaagatg	taacgtcaaa	gtttcaaatg	1560
cacagagtgt	aacctcagaa	agagaaacta	acatttaaca	agaatcacat	ctctgatttc	1620
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aatttttaaat	tagtttttaa	aaacttactt	atttgggtag	ttaaattttg	agattatgca	1800
tagaaagaat	ccatgctata	ggtttatttc	catacctgac	tctgggtgtg	gtgggtaaaa	1860
tactaatttt	aaagtcttcc	agtgactttc	ggcttgggtt	atatgga		1907

H.sapiens mRNA for gonadotropin-releasing hormone receptor, splice variant.

atggcaaca	gtgcctctcc	tgaacagaat	caaaatcact	gttcagccat	caacaacagc	60
atcccactga	tgcaaggcaa	cctccccact	ctgacctgt	ctggaaagat	ccgagtgcg	120
gttactttct	tcctttttct	gctctctgcg	acctttaatg	cttctttctt	gttgaaactt	180
cagaagtgga	cacagaagaa	agagaaaggg	aaaaagctct	caagaatgaa	gctgctctta	240
aaacatctga	ccttagccaa	cctgttgagg	actctgattg	tcatgccact	ggatgggatg	300
tggaaacatta	cagtccaatg	gtatgctgga	gagttactct	gcaaagttct	cagttatcta	360
aagcttttct	ccatgtatgc	cccagccttc	atgatggtgg	tgatcagcct	ggaccgctcc	420
ctggctatca	cgaggcccct	agctttgaaa	agcaacagca	aagtcggaca	gtccatggtt	480
ggcctggcct	ggatcctcag	tagtgtcttt	gcaggaccac	agctgcctct	tcatcatccc	540
tcttttcata	atgctgatct	gcaatgcaaa	aatcatcttc	accctgacac	gggtccttca	600
tcaggacccc	cacgaactac	aactgaatca	gtccaagaac	aatataccaa	gagcacggct	660
gaagactcta	aaaatgacgg	ttgcatttgc	cacttcattt	actgtctgct	ggactcccta	720
ctatgtccta	ggaatttggg	attggtttga	tcttgaaatg	ttaaacaggt	tgtcagaccc	780
agtaaatacac	ttcttctttc	tctttgcctt	tttaaaccce	tgctttgatc	cacttatcta	840
tggatatttt	tctctgtga					859

Homo sapiens midline 1 (MID1) mRNA, complete cds.

cttttttttg	cggggccgca	tgaatccggc	cagccccccc	tgcttgaagg	acctacaggt	60
ttgtctcttc	cagatcagaa	ctgaggaaca	aaaaccccc	tcctgggaaa	aatggggaag	120
ctgatttcgc	cgggttgctt	ttgtcttgcg	ggctcctgtc	gggttcgggtg	ttccgctct	180
gaagactgcg	acgcgggctc	cgatgcagct	cgctccctgc	cggatgggtc	atgggattct	240
aaacatgagg	cagatagctg	atcagcttcc	ttgggttttg	ctgatgacac	aagagagctt	300
tgcctgaaga	tggaaacact	ggagtccagaa	ctgacctgcc	ctatttgtct	ggagctcttt	360
gaggaccctc	ttctactgcc	ctgcgcacac	agcctctgct	tcaactgcgc	ccaccgcac	420
ctagtatcac	actgtgccac	caacgagtct	gtggagtcga	tcaccgcctt	ccagtgcctc	480
acctgcggcg	atgtcatcac	cctcagccag	cgaggtctag	acgggctcaa	gcgcaacgtc	540
accctacaga	acatcatcga	cagggtccag	aaagcatcag	tgagcggggc	caactctccc	600
agcgagaccc	gtcgggagcg	ggcctttgac	gccaacacca	tgacctccgc	cgagaagggtc	660
ctctgccagt	tttgtgacca	ggatcctgcc	caggacgctg	tgaagacctg	tgtcactttgt	720
gaagtatcct	actgtgacga	gtgcctgaaa	gccactcacc	cgaataagaa	gccctttaca	780
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tgtaaactgg	ttgggccgca	cgcgcatcat	cagggtggcag	ctttgagtga	gcgctatgac	960
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caagaagcca	aattgacaga	ggagtgtgat	cttctcattg	agatcattca	gcaaagacga	1140
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cagattgcaa	actgcaaaca	gtgcattgag	cggctcagcat	cactcatctc	ccaagcggaa	1260
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acatttgaca	cctttgcctt	agatttttcc	cgagagaaga	aactgctaga	atgtctggat	1440
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accatcactg	tgcattggac	ctccgatgat	gagttcagcg	tggtctccta	cgagctccag	1560
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tcagaggtag	gattctgttt	tatagtatag	aatctacttt	atcccttctt	tttaatagtt	3180
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agagttgtaa	gaccaaaaaa	aaaaaaaaaa	aaaaa			3575

Homo sapiens IL-1 receptor accessory protein mRNA, complete cds.

tctcaaagga	tgacacttct	gtggtgtgta	gtgagtctct	acttttatgg	aatcctgcaa	60
agtgatgcct	cagaacgctg	cgatgactgg	ggactagaca	ccatgaggca	aatccaagtg	120
tttgaagatg	agccagctcg	catcaagtgc	ccactctttg	aacacttctt	gaaattcaac	180
tacagcacag	cccattcagc	tggccttact	ctgatctggg	attggactag	gcaggaccgg	240
gaccttgagg	agccaattaa	cttcgcgcctc	cccgagaacc	gcattagtaa	ggagaaagat	300
gtgctgtggg	tccggccccc	tctcctcaat	gaactgggca	actatacctg	catgttaagg	360
aacaactacat	attgcagcaa	agttgcattt	cccttggaag	ttgttcaaaa	agacagctgt	420
ttcaattccc	ccatgaaact	cccagtgcac	aaactgtata	tagaatatgg	cattcagagg	480
atcaacttgc	caaatgtaga	tggatatttt	ccttcacagt	tcaaaccgac	tatcacttgg	540
tatatgggct	gttataaaat	acagaatttt	aataatgtaa	taccgaagg	tatgaacttg	600
agtttcctca	ttgccttaat	ttcaaataat	ggaaattaca	catgtgttgt	tacatatcca	660
gaaaatggac	gtacgtttca	tctcaccagg	actctgactg	taaaggtagt	aggctctcca	720
aaaaatgcag	tgccccctgt	gatccattca	cctaatagat	atgtgggtcta	tgagaaagaa	780
ccaggagagg	agctactcat	tccctgtaog	gtctatttta	gttttctgat	ggattctcgc	840
aatgaggttt	ggtggaccat	tgatggaaaa	aaacctgatg	acatcactat	tgatgtcacc	900
attaacgaaa	gtataagtca	tagtagaaca	gaagatgaaa	caagaactca	gattttgagc	960
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gatgagcagg	gcctctcgta	ttcatctttg	aaaaatgtat	gaaaggaata	atgaaaagga	1740

Homo sapiens clone FLB0708 mRNA sequence.

ccaagaggtg	ggaacaatct	aaatgtccaa	cagatgaatg	aattttttaa	aagtgggtata	60
tatacatata	ttgagatatt	attcagcctt	aaaaaagaag	aaaaatcatg	gccggggcgcg	120
gtggctcacg	cctgtaatcc	cagcactttg	ggaggccgag	acgagcgaat	cacgaggtca	180
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gaaagtaaaa	ttgtggttgc	caatggttca	gggtgaaaaa	aaggagggtta	gtgtttaatg	600
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cgaccgcgtc	ttcctcaaaa	aaaaa				1825